

HERO

Historical Evaluation & Research Organization

Report Number 129

COMBAT HISTORY ANALYSIS STUDY EFFORT (CHASE)

DATA ENHANCEMENT STUDY (CDES)

Vol III: Task 2 and 3

Final Report
31 January 1986

Prepared for the
US Army Concepts Analysis Agency
Bethesda, Maryland

Contract No. MDA903-85-C-0252

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This final report contains enhanced data and corrections of omissions, inconsistencies, and ambiguities for a 1984 study performed by HERO for USACAA entitled "ANALYSIS OF FACTORS THAT HAVE INFLUENCED OUTCOMES OF BATTLES AND WARS: A DATA BASE OF BATTLES AND ENGAGEMENTS" (Contract No. MDA903-82C-0363). It has been performed in order to make the data base contained in the 1984 study applicable for use in U.S. Army studies and analyses, concept formulations, and wargaming. It contains enhanced and		

20. corrected data from the original data base, newly developed data, and responses to specific questions and problems formulated by USACAA in its transcription of the data base to computerized format. Volume I contains introductory materials, Volumes II-V, the main body of the report, contain the results of nine tasks developed by USACAA.

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Vol. III: Task 2 and Task 3

Final Report

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Task 2: Clarification of the Total Engaged Personnel Strength

Data

→ The purpose ² of ~~this~~ task is to identify the type of personnel strength given for an engagement. Three categories of personnel strength are provided: Start Strength, Average Daily Strength, and Total Engaged Strength. *See p 119*

1. Start Strength. The sum, at the start of an engagement, of all personnel subject to enemy fire. An "x" under column heading 1 on the following tables identifies the strength as start strength.

2. Average Daily Strength. The average daily number of personnel subject to enemy fire. An "x" under column heading 2 on the following tables identifies the strength as average daily strength. The derivations of the average daily strength computations are provided in footnotes appended to the Task 2 tables.

3. Total Engaged Strength. The total number of personnel subject to enemy fire during the entire duration of the engagement. An "x" under column heading 3 on the following tables identifies the strength as total engaged strength.

New strength and casualty data, generated as a result of the work done on General Problem Reports 2 and 3, and improved data found in research for other parts of this study are also presented in the Task 2 tables. Where appropriate, users of the data base should substitute the revised strength or casualty data presented here for that in Table 3 of the original data base. An asterisk after an engagement number indicates that revised data is given for the engagement, either "enhanced" data,

such as reinforcements, which does not change the original data, or entirely new data.

For two engagements, Arcis-sur-Aube, #142, and Monastir, #251, the duration in days has been changed. The revised values are presented in the footnotes appended to the Task 2 tables. These two engagements are the only ones for which duration in days has been changed. Users of the data base should make the appropriate changes in Table 1 in the original data base and in the percent per day casualty rates and KPDA values for these two engagements and any others in which strength or casualty ^{or duration} data has been changed. Explanations of the column headings for the Task 2 tables are as follow:

Strength is the value reported for personnel strength in the original data base, or a revised value, if research performed for this study has resulted in a change in the original figure. The type of strength is indicated by an "x" under the appropriate column heading marked "1," "2," or "3," as described above.

Initial Strength is the sum, at the start of an engagement, of all personnel subject to enemy fire. This value is provided if data is available. For engagements in which the start strength is presented under Strength, it is the same value.

Reinforcements/Replacements (Reinf./Repl.) are the total number of personnel received as such during the course of an engagement. In pre-twentieth century engagements, this number frequently represents units which were not subject to enemy fire at the start of the engagement, but which reinforced their side

during the course of the battle. This value is provided if data is available.

Casualties are the total number of battle casualties sustained by a force during an engagement. For a more comprehensive definition of this term, see page 11 in Volume II of the original data base. The number presented here is the figure reported in the original data base, or a revised value if research performed for this study has resulted in a change in the original data.

Final Strength is the total strength of a force at the end of an engagement. This value is provided if data is available.

Sources for new data presented in these tables and derivations of average daily strength computations are given in the footnotes appended to the Task 2 tables.

TASK 2: STRENGTH CLARIFICATION

Nieuport, #1

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	11,500	x			11,500	0	4,000	7,500
D:	11,300	x			11,300	0	1,000	10,300

White Mountain, #2

A:	40,000	x			40,000	0	400	39,600
D:	21,000	x			21,000	0	5,000	16,000

Wimpfen, #3*

A:	20,000	x			20,000	0	5,000	15,000
D:	20,000	x			20,000	0	5,800	14,200

Dessau Bridge, #4

A:	8,500	x			8,500	0	3,000	5,500
D:	16,000	x			16,000	0	1,000	15,000

Lutter, #5

A:	17,000	x			17,000	0	2,000	15,000
D:	20,000	x			20,000	0	7,000	13,000

Breitenfeld I, #6

A:	32,000	x			32,000	0	13,600	18,400
D:	37,850	x			37,850	0	6,100	31,750

TASK 2: STRENGTH CLARIFICATION

The Lech, #7

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	33,000	x			33,000	0	1,000	32,000
D:	27,000	x			27,000	0	3,000	24,000

Alte Veste, #8

A:	46,000	x			46,000	0	4,000	42,000
D:	60,000	x			60,000	0	2,000	58,000

Luetzen, #9*

A:	18,996	x			18,996	0	4,000	14,996
D:	21,770			x	16,770	5,000	5,000	16,770

Noerdlingen I, #10

A:	25,000	x			25,000	0	12,000	13,000
D:	35,000	x			35,000	0	2,000	33,000

Wittstock, #11

A:	22,000	x			22,000	0	7,000	15,000
D:	30,000	x			30,000	0	18,000	12,000

Breitenfeld II, #12

A:	25,000	x			25,000	0	5,000	20,000
D:	30,000	x			30,000	0	15,000	15,000

TASK 2: STRENGTH CLARIFICATION

Rocroi, #13

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	23,000	x			23,000	0	4,000	19,000
D:	26,000	x			26,000	0	14,000	12,000

Tuttlingen, #14

A:	22,000	x			22,000	0	1,000	21,000
D:	18,000	x			18,000	0	7,000	11,000

Frieburg, #15

A:	19,000	x			19,000	0	8,000	11,000
D:	16,000	x			16,000	0	4,000	12,000

Jankau, #16

A:	15,000	x			15,000	0	8,500	6,500
D:	15,000	x			15,000	0	2,000	13,000

Mergentheim, #17

A:	10,000	x			10,000	0	700	9,300
D:	11,000	x			11,000	0	3,500	7,500

Allerheim (Noerdlingen II), #18

A:	18,000	x			18,000	0	7,500	10,500
D:	16,000	x			16,000	0	6,000	10,000

TASK 2: STRENGTH CLARIFICATION

Lens, #19

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	14,000	x			14,000	0	4,000	10,000
D:	18,000	x			18,000	0	10,000	8,000

Edgehill, #20*

A:	14,300	x			14,300	0	2,500	11,800
D:	14,870	x			14,870	0	2,500	12,370

Marston Moor, #21

A:	27,000	x			27,000	0	1,500	25,500
D:	17,500	x			17,500	0	6,000	11,500

Tippermuir, #22

A:	6,800	x			6,800	0	3,000	3,800
D:	3,000	x			3,000	0	1	2,999

Kilsyth, #23

A:	4,900	x			4,900	0	6	4,894
D:	6,800	x			6,800	0	6,000	800

Newbury II, #24

A:	22,000	x			22,000	0	500	21,500
D:	10,000	x			10,000	0	500	9,500

TASK 2: STRENGTH CLARIFICATION

Naseby, #25

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	9,000	x			9,000	0	6,000	3,000
D:	13,000	x			13,000	0	1,000	12,000

Preston, #26*

A:	9,000	x			9,000	0	300	8,700
D:	21,000	x			21,000	0	5,000	16,000

Dunbar, #27

A:	11,000	x			11,000	0	30	10,970
D:	22,000	x			22,000	0	13,000	9,000

Worcester, #28

A:	28,000	x			28,000	0	1,000	27,000
D:	16,000	x			16,000	0	9,000	7,000

St. Antoine, #29

A:	12,000	x			12,000	0	4,000	8,000
D:	6,000	x			6,000	0	2,000	4,000

The Dunes, #30

A:	15,000	x			15,000	0	2,000	13,000
D:	12,000	x			12,000	0	7,000	5,000

TASK 2: STRENGTH CLARIFICATION

The Raab, #31

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	60,000	x			60,000	0	8,000	52,000
D:	30,000	x			30,000	0	2,000	28,000

Vienna, #32

A:	76,000	x			76,000	0	2,000	74,000
D:	107,000	x			107,000	0	10,000	97,000

Chocim II, #33

A:	50,000	x			50,000	0	1,000	49,000
D:	80,000	x			80,000	0	30,000	50,000

Sinsheim, #34

A:	9,500	x			9,500	0	1,500	8,000
D:	7,500	x			7,500	0	2,500	5,000

Senef, #35

A:	50,000	x			50,000	0	10,000	40,000
D:	70,000	x			70,000	0	14,000	56,000

Enzheim, #36

A:	22,000	x			22,000	0	3,500	18,500
D:	31,700	x			31,700	0	2,500	29,200

TASK 2: STRENGTH CLARIFICATION

Turckheim, #37

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	33,000	x			33,000	0	1,100	31,900
D:	30,000	x			30,000	0	3,400	26,600

Fehrbellin, #38

A:	6,000	x			6,000	0	500	5,500
D:	6,400	x			6,400	0	2,500	3,900

Sedgemoor, #39

A:	4,000	x			4,000	0	1,500	2,500
D:	3,000	x			3,000	0	300	2,700

Killiecrankie, #40*

A:	2,800	x			2,800	0	600	2,200
D:	3,400	x			3,400	0	1,900	1,500

Walcourt, #41

A:	24,000	x			24,000	0	2,000	22,000
D:	35,000	x			35,000	0	130	34,870

Fleurus, #42

A:	50,000	x			50,000	0	6,000	44,000
D:	38,000	x			38,000	0	19,000	19,000

TASK 2: STRENGTH CLARIFICATION

The Boyne, #43

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	35,000	x			35,000	0	2,000	33,000
D:	23,000	x			23,000	0	1,500	21,500

Aughrim, #44

A:	18,000	x			18,000	0	2,700	15,300
D:	25,000	x			25,000	0	4,400	20,600

Steenkerke, #45

A:	63,000	x			63,000	0	8,000	55,000
D:	57,000	x			57,000	0	7,000	50,000

Neerwinden (Landen), #46

A:	80,000	x			80,000	0	9,000	71,000
D:	50,000	x			50,000	0	14,000	36,000

Marsaglia, #47

A:	40,000	x			40,000	0	3,000	37,000
D:	36,000	x			36,000	0	11,000	25,000

Zenta, #48

A:	50,000	x			50,000	0	500	49,500
D:	100,000	x			100,000	0	30,000	70,000

TASK 2: STRENGTH CLARIFICATION

Poltava, #49

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	21,500	x			21,500	0	9,600	11,900
D:	80,000	x			80,000	0	1,300	78,700

Blenheim, #50

A:	52,000	x			52,000	0	12,883	39,117
D:	56,000	x			56,000	0	34,190	21,810

Ramillies, #51

A:	62,000	x			62,000	0	3,620	58,380
D:	60,000	x			60,000	0	19,000	41,000

Oudenarde, #52

A:	80,000	x			80,000	0	4,000	76,000
D:	85,000	x			85,000	0	15,000	70,000

Malplaquet, #53

A:	110,000	x			110,000	0	24,000	86,000
D:	80,000	x			80,000	0	12,000	68,000

Peterwardein, #54

A:	63,000	x			63,000	0	4,500	58,500
D:	60,000	x			60,000	0	6,000	54,000

TASK 2: STRENGTH CLARIFICATION

Mollwitz, #55

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	18,100	x			18,100	0	4,551	13,549
D:	22,000	x			22,000	0	4,850	17,150

Chotusitz, #56

A:	29,000	x			29,000	0	6,332	22,668
D:	24,500	x			24,500	0	4,819	19,681

Dettingen, #57

A:	35,000	x			35,000	0	2,500	32,500
D:	26,000	x			26,000	0	4,000	22,000

Fontenoy, #58

A:	50,000	x			50,000	0	12,000	38,000
D:	60,000	x			60,000	0	6,000	54,000

Hohenfriedberg, #59

A:	50,000	x			50,000	0	4,737	45,263
D:	66,000	x			66,000	0	13,176	52,824

Sohr, #60

A:	22,562	x			22,562	0	3,876	18,686
D:	41,000	x			41,000	0	7,444	33,556

TASK 2: STRENGTH CLARIFICATION

Kesselsdorf, #61

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	31,000	x			31,000	0	5,000	26,000
D:	31,200	x			31,200	0	6,630	24,570

Prestonpens, #62

A:	2,400	x			2,400	0	110	2,290
D:	2,200	x			2,200	0	1,800	400

Culloden, #63

A:	5,400	x			5,400	0	1,558	3,842
D:	9,000	x			9,000	0	309	8,691

Lobositz, #64

A:	29,000	x			29,000	0	2,906	26,094
D:	34,500	x			34,500	0	2,873	31,627

Prague, #65

A:	65,000	x			65,000	0	14,300	50,700
D:	62,000	x			62,000	0	13,400	48,600

Plassey, #66

A:	50,050	x			50,050	0	500	49,550
D:	2,975	x			2,975	0	63	2,912

TASK 2: STRENGTH CLARIFICATION

Kolin, #67

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	32,000	x			32,000	0	13,768	18,232
D:	44,000	x			44,000	0	9,000	35,000

Hastenbeck, #68

A:	60,000	x			60,000	0	2,500	57,500
D:	36,000	x			36,000	0	1,500	34,500

Rosbach, #69

A:	42,000	x			42,000	0	10,150	31,850
D:	22,000	x			22,000	0	548	21,452

Leuthen, #70

A:	33,000	x			33,000	0	11,589	21,411
D:	65,000	x			65,000	0	22,000	43,000

Crefeld, #71

A:	32,000	x			32,000	0	1,800	30,200
D:	50,000	x			50,000	0	8,200	41,800

Zorndorf, #72

A:	36,000	x			36,000	0	12,797	23,203
D:	43,300	x			43,300	0	18,500	24,800

TASK 2: STRENGTH CLARIFICATION

Hochkirch, #73

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	80,000	x			80,000	0	7,587	72,413
D:	31,000	x			31,000	0	9,097	21,903

Bergen, #74

A:	24,000	x			24,000	0	2,800	21,200
D:	30,000	x			30,000	0	1,800	28,200

Minden, #75

A:	45,000	x			45,000	0	2,762	42,238
D:	60,000	x			60,000	0	7,086	52,914

Kunersdorf, #76

A:	50,900	x			50,900	0	19,100	31,800
D:	59,500	x			59,500	0	15,500	44,000

Plains of Abraham (Quebec), #77

A:	4,500	x			4,500	0	1,500	3,000
D:	4,800	x			4,800	0	650	4,150

Maxen, #78*

A:	38,000	x			38,000	0	1,000	37,000
D:	13,500	x			13,500	0	1,000	12,500

TASK 2: STRENGTH CLARIFICATION

Warburg, #79

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	19,000	x			19,000	0	1,300	17,700
D:	17,000	x			17,000	0	3,700	13,300

Liegnitz, #80

A:	30,000	x			30,000	0	6,000	24,000
D:	30,000	x			30,000	0	3,600	26,400

Torgau, #81*

A:	50,000	x			50,000	0	16,670	33,330
D:	53,400	x			53,400	0	15,697	37,703

Bunker Hill, #82

A:	2,650	x			2,650	0	1,054	1,596
D:	3,200	x			3,200	0	479	2,721

Quebec, #83

A:	1,100	x			1,100	0	486	614
D:	1,800	x			1,800	0	18	1,782

White Plains, #84

A:	13,000	x			13,000	0	313	12,687
D:	13,000	x			13,000	0	150	12,850

TASK 2: STRENGTH CLARIFICATION

Trenton, #85

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	2,420	x			2,420	0	12	2,408
D:	1,520	x			1,520	0	996	524

Princeton, #86*

A:	4,800			x	1,250	3,550	44	4,756
D:	1,200			x	800	400	215	985

Freeman's Farm, #87*

A:	4,400			x	3,300	1,100	556	3,844
D:	7,000	x			7,000	0	316	6,684

Germantown, #88

A:	11,200	x			11,200	0	1,090	10,110
D:	9,000	x			9,000	0	551	8,449

Bemis Heights, #89

A:	5,000	x			5,000	0	600	4,400
D:	11,000	x			11,000	0	130	10,870

Monmouth Court House, #90*

A:	13,000			x	2,000	11,000	358	12,642
D:	11,000			x	5,000	6,000	362	10,638

TASK 2: STRENGTH CLARIFICATION

Camden, #91

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	2,100	x			2,100	0	324	1,776
D:	3,050	x			3,050	0	1,050	2,000

Cowpens, #92

A:	1,100	x			1,100	0	929	171
D:	1,025	x			1,025	0	72	953

Guilford Court House, #93

A:	1,900	x			1,900	0	532	1,368
D:	4,449	x			4,449	0	420	4,029

Hobkirk's Hill, #94

A:	900	x			900	0	258	642
D:	1,551	x			1,551	0	420	1,131

Eutaw Springs, #95

A:	2,200	x			2,200	0	554	1,646
D:	2,000	x			2,000	0	693	1,307

Valmy, #96

A:	34,000	x			34,000	0	350	33,650
D:	36,000	x			36,000	0	400	35,600

TASK 2: STRENGTH CLARIFICATION

Jemappes, #97

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	40,000	x			40,000	0	3,000	37,000
D:	13,000	x			13,000	0	2,500	10,500

Neerwinden, #98

A:	45,000	x			45,000	0	4,000	41,000
D:	43,000	x			43,000	0	3,000	40,000

Hondschoote, #99

A:	42,000	x			42,000	0	3,000	39,000
D:	13,000	x			13,000	0	3,000	10,000

Wattignies, #100

A:	44,000	x			44,000	0	4,500	39,500
D:	23,000	x			23,000	0	3,000	20,000

Fleurus, #101*

A:	46,000	x			46,000	0	4,000	42,000
D:	73,000	x			73,000	0	7,000	66,000

Lodi, #102*

A:	17,000			x	6,100	10,900	900	16,100
D:	10,000	x			10,000	0	1,850	8,150

TASK 2: STRENGTH CLARIFICATION

Castiglione, #103*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	30,000			x	21,000	9,000	1,500	28,500
D:	25,000	x			25,000	0	3,000	22,000

Neresheim, #104

A:	40,000	x			40,000	0	3,000	37,000
D:	45,000	x			45,000	0	3,000	42,000

Wuerzburg, #105*

A:	44,000			x	?	?	1,500	42,500
D:	30,000	x			30,000	0	3,000	27,000

Arcola, #106

A:	17,300	x			17,300	0	4,500	12,800
D:	12,700	x			12,700	0	7,000	5,700

Rivoli, #107

A:	28,000	x			28,000	0	14,000	14,000
D:	20,500			x	?	?	5,000	15,500

Pyramids, #108

A:	25,000	x			25,000	0	300	24,700
D:	21,000	x			21,000	0	5,000	16,000

TASK 2: STRENGTH CLARIFICATION

Stockach I, #109

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	38,000	x			38,000	0	4,500	33,500
D:	50,000	x			50,000	0	6,000	44,000

Mount Tabor, #110*

A:	35,000	x			35,000	0	6,500	28,500
D:	4,500		x		2,000	2,500	60	4,440

Zurich I, #111

A:	40,000	x			40,000	0	3,400	36,600
D:	25,000	x			25,000	0	1,600	23,400

Novi, #112

A:	50,000	x			50,000	0	9,000	41,000
D:	35,000	x			35,000	0	11,000	24,000

Zurich III, #113

A:	35,000	x			35,000	0	4,000	31,000
D:	23,000	x			23,000	0	8,000	15,000

Moeskirch, #114

A:	60,000	x			60,000	0	4,000	56,000
D:	60,000	x			60,000	0	5,000	55,000

TASK 2: STRENGTH CLARIFICATION

Marengo, #115*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	31,000	x			31,000	0	11,000	20,000
D:	29,000			x	9,000	20,000	7,000	22,000

Hohenlinden, #116*

A:	57,000	x			57,000	0	20,000	37,000
D:	55,000			x	33,000	22,000	2,500	52,500

Austerlitz, #117*

A:	85,400	x			85,400	0	27,500	57,900
D:	73,200			x	65,200	8,000	7,000	66,200

Jena, #118*

A:	96,000			x	46,000	50,000	4,000	92,000
D:	53,000			x	38,000	15,000	30,000	23,000

Auerstadt, #119*

A:	63,500			x	47,900	15,600	20,000	43,500
D:	27,000			x	20,800	6,200	4,000	23,000

Eylau, #120*

A:	78,000			x	48,900	29,100	18,500	59,500
D:	80,000			x	71,000	9,000	28,000	52,000

TASK 2: STRENGTH CLARIFICATION

Friedland, #121*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	80,000			x	17,000	63,000	8,000	72,000
D:	60,000	x			60,000	0	25,000	35,000

Vimeiro, #122

A:	13,050	x			13,050	0	1,800	11,250
D:	19,600	x			19,600	0	750	18,850

Corunna, #123

A:	20,600	x			20,600	0	1,600	19,000
D:	14,800	x			14,800	0	1,000	13,800

Eckmuehl, #124*

A:	74,000	x			74,000	0	12,000	62,000
D:	66,000			x	36,000	30,000	6,000	60,000

Aspern-Essling, #125*

A:	99,000	x			99,000	0	23,000	76,000
D:	66,000			x	23,000	43,000	21,000	45,000

The Raab, #126

A:	35,000	x			35,000	0	4,000	31,000
D:	37,000	x			37,000	0	6,211	30,789

TASK 2: STRENGTH CLARIFICATION

Wagram, #127

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	140,000			x	?	?	34,000	106,000
D:	140,000			x	?	?	45,000	95,000

Talavera, #128

A:	46,000	x			46,000	0	7,300	38,700
D:	54,500	x			54,500	0	6,700	47,800

Bussaco, #129

A:	65,900	x			65,900	0	4,500	61,400
D:	51,910	x			51,910	0	1,300	50,610

Fuentes de Onoro, #130

A:	48,260	x			48,260	0	2,700	45,560
D:	37,360	x			37,360	0	1,800	35,560

Albuera, #131

A:	23,000	x			23,000	0	8,000	15,000
D:	30,000	x			30,000	0	7,500	22,500

Salamanca, #132

A:	46,000	x			46,000	0	6,000	40,000
D:	42,000	x			42,000	0	13,000	29,000

TASK 2: STRENGTH CLARIFICATION

Vittoria, #133

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	79,062	x			79,062	0	5,148	73,914
D:	68,024	x			68,024	0	7,000	61,024

Borodino, #134

A:	120,000	x			120,000	0	28,000	92,000
D:	120,000	x			120,000	0	40,000	80,000

Luetzen, #135*

A:	93,000	x			93,000	0	18,000	75,000
D:	120,000		x		45,000	75,000	22,000	98,000

Bautzen, #136*

A:	199,000			x	115,000	84,000	25,000	174,000
D:	97,000	x			97,000	0	20,000	77,000

Dresden, #137*

A:	170,000			x	158,000	12,000	40,000	130,000
D:	120,000			x	70,000	50,000	10,000	110,000

Leipzig, #138*

A:	365,000			x	200,000	165,000	65,000	300,000
D:	196,200			x	177,500	18,700	60,000	136,200

TASK 2: STRENGTH CLARIFICATION

Hanau, #139*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	60,000			x	30,000	30,000	5,000	55,000
D:	40,000	x			40,000	0	15,000	25,000

La Rothiere, #140*

A:	110,000			x	78,000	32,000	6,000	104,000
D:	40,000	x			40,000	0	6,000	34,000

Laon, #141*

A:	47,600			x	37,600	10,000	6,000	41,600
D:	85,000	x			85,000	0	4,000	81,000

Arcis-sur-Aube, #142*

A:	80,000			x	20,000	60,000	3,000	77,000
D:	30,000			x	18,000	12,000	5,000	25,000

Ligny, #143*

A:	67,567			x	49,567	18,000	12,000	55,567
D:	82,895	x			82,895	0	18,000	64,895

Quatre Bras, #144*

A:	26,741	x			26,741	0	4,500	22,241
D:	33,765			x	8,000	25,765	4,500	29,265

TASK 2: STRENGTH CLARIFICATION

Waterloo, #145*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	68,625	x			68,625	0	25,000	43,625
D:	137,547			x	68,000	69,547	22,500	115,047

The Thames, #146

A:	3,500	x			3,500	0	29	3,471
D:	1,800	x			1,800	0	668	1,132

Chippewa, #147

A:	2,100	x			2,100	0	604	1,496
D:	2,650	x			2,650	0	355	2,295

Lundy's Lane, #148*

A:	2,000			x	700	1,300	860	1,140
D:	3,000			x	1,700	1,300	878	2,122

New Orleans, #149

A:	6,000	x			6,000	0	2,600	3,400
D:	3,200	x			3,200	0	71	3,129

Boyaca, #150

A:	3,000	x			3,000	0	66	2,934
D:	3,000	x			3,000	0	1,800	1,200

TASK 2: STRENGTH CLARIFICATION

Carabobo, #151

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	6,400	x	-	-	6,400	0	200	6,200
D:	5,180	x	-	-	5,180	0	2,908	2,272

Bombona, #152

A:	1,800	x	-	-	1,800	0	531	1,269
D:	2,200	x	-	-	2,200	0	250	1,950

Pichincha, #153

A:	2,500	x	-	-	2,500	0	590	1,910
D:	2,400	x	-	-	2,400	0	340	2,060

Junin, #154

A:	2,000	x	-	-	2,000	0	145	1,855
D:	2,000	x	-	-	2,000	0	464	1,536

Ayacucho, #155

A:	9,310	x	-	-	9,310	0	2,500	6,810
D:	5,780	x	-	-	5,780	0	919	4,861

San Jacinto, #156

A:	743	x	-	-	743	0	39	704
D:	1,600	x	-	-	1,600	0	1,600	0

TASK 2: STRENGTH CLARIFICATION

Palo Alto, #157

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	2,288	x			2,288	0	48	2,240
D:	6,000	x			6,000	0	400	5,600

Resaca de la Palma, #158

A:	1,700	x			1,700	0	122	1,578
D:	5,600	x			5,600	0	600	5,000

Buena Vista, #159

A:	14,000	x			14,000	0	2,000	12,000
D:	4,759	x			4,759	0	746	4,013

Cerro Gordo, #160

A:	8,500	x			8,500	0	431	8,069
D:	12,000	x			12,000	0	4,000	8,000

Contreras, #161

A:	4,500	x			4,500	0	60	4,440
D:	4,000	x			4,000	0	1,513	2,487

Churubusco, #162

A:	8,497	x			8,497	0	996	7,501
D:	10,500	x			10,500	0	3,124	7,376

TASK 2: STRENGTH CLARIFICATION

Molino del Rey, #163

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	3,100	x			3,100	0	792	2,308
D:	12,000	x			12,000	0	2,700	9,300

Chapultepec, #164

A:	7,180	x			7,180	0	863	6,317
D:	15,000	x			15,000	0	1,800	13,200

The Alma, #165

A:	65,000	x			65,000	0	2,562	62,438
D:	36,400	x			36,400	0	5,709	30,691

Inkerman, #166*

A:	42,000	x			42,000	0	15,187	26,813
D:	16,000			x	8,500	7,500	4,105	11,895

Magenta, #167

A:	48,090	x			48,090	0	4,530	43,560
D:	61,618	x			61,618	0	10,236	51,382

Solferino, #168

A:	143,000	x			143,000	0	17,400	125,600
D:	130,000	x			130,000	0	21,800	108,200

TASK 2: STRENGTH CLARIFICATION

Sadowa (Koenigraetz), #169*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	220,000	-	-	x	105,000	115,000	9,200	210,800
D:	215,000	x			215,000	0	44,300	170,700

Custoza II, #170

A:	90,000			x	?	?	8,100	81,900
D:	75,000	x			75,000	0	5,600	69,400

First Bull Run (First Manassas), #171*

A:	35,000	x			35,000	0	2,896	32,104
D:	32,500			x	30,500	2,000	1,982	30,518

Wilson's Creek, #172

A:	5,400	x			5,400	0	1,235	4,165
D:	10,175	x			10,175	0	1,095	9,080

Belmont, #173*

A:	3,144	x			3,144	0	607	2,537
D:	5,000			x	2,500	2,500	642	4,358

Mill Springs, #174

A:	4,000	x			4,000	0	533	3,467
D:	4,000	x			4,000	0	262	3,738

TASK 2: STRENGTH CLARIFICATION

Fort Donelson, #175

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	21,000	x			21,000	0	2,000	19,000
D:	27,000	x			27,000	0	2,609	24,391

Pea Ridge, #176

A:	16,202	x			16,202	0	1,300	14,902
D:	10,500	x			10,500	0	1,384	9,116

Kernstown, #177

A:	3,087	x			3,087	0	718	2,369
D:	7,000	x			7,000	0	590	6,410

Shiloh, #178*

A:	40,355	x			40,355	0	10,699	29,656
D:	66,812			x	41,330	25,482	13,047	53,765

Front Royal, #179

A:	16,000	x			16,000	0	35	15,965
D:	1,063	x			1,063	0	904	159

First Winchester, #180

A:	16,000	x			16,000	0	365	15,635
D:	7,000	x			7,000	0	2,126	4,874

TASK 2: STRENGTH CLARIFICATION

Cross Keys, #181

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	10,500	x			10,500	0	684	9,816
D:	5,000	x			5,000	0	288	4,712

Port Republic, #182*

A:	15,000			x	1,200	13,800	800	14,200
D:	3,000	x			3,000	0	1,018	1,982

Seven Pines (Fair Oaks) #183*

A:	41,816			x	7,500	34,236	6,100	35,716
D:	41,797			x	8,253	33,544	5,000	36,797

Mechanicsville, #184

A:	16,808	x			16,808	0	1,484	15,324
D:	15,631	x			15,631	0	361	15,270

Gaines's Mill, #185*

A:	57,018			x	21,752	35,266	8,751	48,267
D:	34,214			x	25,214	9,000	6,837	27,377

Glendale-Frayser's Farm, #186*

A:	86,748			x	11,000	75,748	4,241	82,507
D:	83,345			x	24,635	58,710	4,443	78,902

TASK 2: STRENGTH CLARIFICATION

Malvern Hill, #187*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	82,507	x			82,507	0	5,355	77,152
D:	78,902	x			78,902	0	3,214	75,688

Cedar Mountain, #188

A:	8,030	x			8,030	0	2,353	5,677
D:	16,848	x			16,848	0	1,338	15,510

Second Bull Run (Second Manassas), #189*

A:	75,696			x	35,083	40,613	14,462	61,234
D:	48,527			x	20,000	28,527	9,474	39,053

South Mountain, #190

A:	28,480	x			28,480	0	1,813	26,667
D:	17,852	x			17,852	0	2,685	15,167

Antietam (Sharpsburg), #191*

A:	90,000	x			90,000	0	12,410	77,590
D:	46,000			x	43,000	3,000	13,700	32,300

Corinth, #192*

A:	22,000	x			22,000	0	4,233	17,767
D:	21,147	x			21,147	0	2,520	18,627

TASK 2: STRENGTH CLARIFICATION

Perryville, #193

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	36,940	x			36,940	0	4,211	32,729
D:	16,000	x			16,000	0	3,396	12,604

Fredericksburg, #194

A:	106,007	x			106,007	0	12,653	93,354
D:	72,497	x			72,497	0	4,656	67,841

Murfreesboro (Stones River), #195

A:	34,732	x			34,732	0	11,739	22,993
D:	41,400	x			41,400	0	12,906	28,494

Chancellorsville, #196*

A:	113,000			x	109,480	3,520	17,278	95,722
D:	60,892	x			60,892	0	12,821	48,071

Champion's Hill, #197

A:	29,373	x			29,373	0	2,441	26,932
D:	20,000	x			20,000	0	3,851	16,149

Brandy Station, #198*

A:	12,000			x	10,500	1,500	900	11,100
D:	10,000	x			10,000	0	500	9,500

TASK 2: STRENGTH CLARIFICATION

Gettysburg, #199*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	75,054	-	-	x	28,800	46,254	28,063	46,991
D:	83,289			x	23,600	59,689	23,049	60,240

Chickamauga, #200

A:	66,326	x			66,326	0	18,454	47,872
D:	58,222	x			58,222	0	16,170	42,052

Chattanooga, #201

A:	61,000	x			61,000	0	5,824	55,176
D:	40,000	x			40,000	0	6,667	33,333

The Wilderness, #202*

A:	101,895			x	74,000	27,895	17,666	84,229
D:	61,025			x	31,000	30,025	7,750	53,275

Spotsylvania, #203*

A:	90,000			x	20,000	70,000	18,399	71,601
D:	50,000			x	14,000	36,000	10,000	40,000

New Market, #204*

A:	5,000	x			5,000	0	577	4,423
D:	5,150	x			5,150	0	831	4,319

TASK 2: STRENGTH CLARIFICATION

Cold Harbor, #205*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	107,907	x			107,907	0	11,000	96,707
D:	59,000	x			59,000	0	1,500	57,500

Kenesaw Mountain, #206

A:	16,225	x			16,225	0	2,051	14,174
D:	17,733	x			17,733	0	442	17,291

Peachtree Creek, #207

A:	18,832	x			18,832	0	2,746	16,086
D:	20,139	x			20,139	0	1,600	18,539

Atlanta, #208

A:	36,934	x			36,934	0	8,000	28,934
D:	30,477	x			30,477	0	3,722	26,755

Petersburg, #209*

A:	63,797			x	16,100	47,697	8,150	55,647
D:	41,499			x	5,400	36,099	4,752	36,747

Globe Tavern, #210*

A:	20,289			x	11,832	8,457	4,455	15,834
D:	14,787			x	?	?	1,619	13,168

TASK 2: STRENGTH CLARIFICATION

Opequon Creek (Third Winchester), #211

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	37,711	x			37,711	0	5,018	32,693
D:	17,103	x			17,103	0	3,921	13,182

Cedar Creek, #212

A:	18,410	x			18,410	0	2,910	15,500
D:	30,829	x			30,829	0	5,665	25,164

Franklin, #213

A:	26,897	x			26,897	0	6,252	20,645
D:	27,939	x			27,939	0	2,326	25,613

Nashville, #214

A:	49,773	x			49,773	0	3,061	46,712
D:	23,207	x			23,207	0	5,350	17,857

Bentonville, #215*

A:	27,000	x			27,000	0	2,606	24,394
D:	60,000			x	17,990	42,010	1,646	58,354

Dinwiddie Court House & White Oak Road, #216*

A:	45,247			x	13,000	32,247	2,781	42,466
D:	20,030			x	3,500	16,530	1,800	18,230

TASK 2: STRENGTH CLARIFICATION

Five Forks, #217*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	30,000	x	-	-	30,000	0	634	29,366
D:	10,000	x	-	-	10,000	0	6,000	4,000

Selma, #218

A:	13,500	x	-	-	13,500	0	400	13,100
D:	7,000	x	-	-	7,000	0	4,000	3,000

Sayler's Creek, #219*

A:	30,000	x	-	-	30,000	0	1,180	28,820
D:	21,000	x	-	-	21,000	0	7,000	14,000

Weissenburg, #220

A:	51,000	x	-	-	51,000	0	1,600	49,400
D:	6,000	x	-	-	6,000	0	2,100	3,900

Froeschwiller (Woerth), #221

A:	82,000	x	-	-	82,000	0	10,700	71,300
D:	41,000	x	-	-	41,000	0	20,300	20,700

Spichern, #222*

A:	42,000	-	-	x	16,000	26,000	4,900	37,100
D:	28,000	-	-	x	13,400	14,600	3,100	24,900

TASK 2: STRENGTH CLARIFICATION

Mars la Tour, #223*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	63,000	-	-	x	29,000	34,000	16,000	47,000
D:	113,000	x			113,000	0	14,000	99,000

Gravelotte-St. Privat, #224

A:	187,000	x			187,000	0	20,200	166,800
D:	113,000	x			113,000	0	12,800	100,200

Sedan, #225

A:	200,000	x			200,000	0	9,000	191,000
D:	120,000	x			120,000	0	38,000	82,000

Coulmiers, #226

A:	60,000	x			60,000	0	1,800	58,200
D:	20,000	x			20,000	0	1,800	18,200

Orleans, #227

A:	86,000	x			86,000	0	6,300	79,700
D:	116,000	x			116,000	0	28,000	88,000

LeMans, #228

A:	72,000	x			72,000	0	4,000	68,000
D:	88,000	x			88,000	0	26,000	62,000

TASK 2: STRENGTH CLARIFICATION

Belfort, #229

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	110,000	x			110,000	0	8,000	102,000
D:	40,000	x			40,000	0	2,000	38,000

Isandhlwana, #230

A:	20,000	x			20,000	0	3,000	17,000
D:	1,800	x			1,800	0	1,445	355

Ulundi, #231

A:	20,000	x			20,000	0	1,500	18,500
D:	5,317	x			5,317	0	100	5,217

Majuba Hill, #232

A:	1,200	x			1,200	0	6	1,194
D:	350	x			350	0	284	66

Tel el-Kebir, #233

A:	17,401	x			17,401	0	469	16,932
D:	20,000	x			20,000	0	2,500	17,500

Omdurman, #234

A:	55,000	x			55,000	0	30,700	24,300
D:	25,800	x			25,800	0	482	25,318

TASK 2: STRENGTH CLARIFICATION

Adowa, #235

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	120,000	x			120,000	0	17,000	103,000
D:	20,251	x			20,251	0	9,678	10,573

Modder River, #236

A:	8,000	x			8,000	0	468	7,532
D:	3,500	x			3,500	0	150	3,350

Magersfontein, #237

A:	15,000	x			15,000	0	948	14,052
D:	9,000	x			9,000	0	236	8,764

Colenso, #238

A:	13,411	x			13,411	0	1,126	12,285
D:	5,500	x			5,500	0	50	5,450

Spion Kop, #239

A:	24,000	x			24,000	0	1,734	22,266
D:	5,000	x			5,000	0	335	4,665

Paardeberg, #240

A:	15,000	x			15,000	0	1,270	13,730
D:	4,000	x			4,000	0	350	3,650

TASK 2: STRENGTH CLARIFICATION

San Juan and El Caney, #241

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	15,065	x			15,065	0	1,572	13,493
D:	1,592	x			1,592	0	850	742

The Yalu, #242

A:	56,000	x			56,000	0	1,110	54,900
D:	18,000	x			18,000	0	2,500	15,500

Telissu, #243

A:	36,000	x			36,000	0	1,200	34,800
D:	38,000			x	?	?	3,800	34,200

Liaoyang, #244

A:	135,000			x	?	?	17,500	117,500
D:	150,000			x	?	?	16,500	133,500

The Sha-Ho, #245

A:	210,000			x	?	?	46,000	164,000
D:	145,000			x	?	?	17,000	128,000

Sandepu, #246

A:	58,000	x			58,000	0	13,000	45,000
D:	40,000	x			40,000	0	9,400	30,600

TASK 2: STRENGTH CLARIFICATION

Mukden, #247

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	314,000			x	?	?	41,000	273,000
D:	310,000			x	?	?	96,500	213,500

Kumanovo, #248*

A:	103,000			x	61,800	41,200	5,000	98,000
D:	110,000	x			110,000	0	10,000	100,000

Lule' Burgas, #249*

A:	140,000			x	65,000	75,000	20,000	120,000
D:	110,000	x			110,000	0	30,000	80,000

Prelip, #250*

A:	50,000			x	25,000	25,000	3,000	47,000
D:	20,000	x			20,000	0	6,000	14,000

Monastir, #251*

A:	120,000	x			120,000	0	5,000	115,000
D:	90,000	x			90,000	0	20,000	70,000

Adrianople, #252

A:	152,000	x			152,000	0	9,300	142,700
D:	75,000	x			75,000	0	15,000	60,000

TASK 2: STRENGTH CLARIFICATION

Warsaw, #253

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	160,000	-	-	x	?	?	50,000	110,000
D:	200,000	-	-	x	?	?	150,000	50,000

The Nieman, #254*

A:	80,000	-	-	x	?	?	20,000	60,000
D:	108,500	-	-	x	?	?	50,000	58,500

Guadalajara-Brihuega, #255

A:	52,000	x	-	-	52,000	0	6,460	45,540
D:	100,000	x	-	-	100,000	0	6,660	93,340

Changkufeng/Shachao Feng, #256

A:	1,410	-	-	x	?	?	178	1,232
D:	1,460	-	-	x	?	?	350	1,110

Hill 52/Shachao Feng, #257

A:	4,000	-	-	x	?	?	400	3,600
D:	3,010	-	-	x	?	?	41	2,969

Changkufeng/Hill 52, #258

A:	20,000	-	-	x	?	?	4,000	16,000
D:	8,000	-	-	x	?	?	1,100	6,900

TASK 2: STRENGTH CLARIFICATION

Nomonhan: Opening Engagement, #259

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	1,300	-	-	x	?	?	278	1,022
D:	1,228	-	-	x	?	?	250	978

Nomonhan: Soviet Counteroffensive, #260

A:	57,000	x			57,000	0	10,000	47,000
D:	30,000	x			30,000	0	11,500	18,500

Suomussalmi, #261*

A:	9,000			x	4,000	5,000	2,670	6,330
D:	29,954			x	11,954	18,000	19,600	10,354

Alsace-Lorraine I, #262

A:	457,000			x	?	?	65,430	391,570
D:	345,000			x	?	?	32,880	312,120

Alsace-Lorraine II, #263

A:	350,000			x	?	?	11,000	339,000
D:	400,000			x	?	?	21,780	378,220

The Ardennes, #264

A:	360,000			x	?	?	17,196	342,804
D:	400,000			x	?	?	12,720	387,280

TASK 2: STRENGTH CLARIFICATION

The Sambre, #265

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	440,000			x	?	?	21,018	418,982
D:	254,000			x	?	?	8,000	246,000

Mons, #266

A:	260,000			x	?	?	6,210	253,790
D:	70,000			x	?	?	1,638	68,362

Le Cateau, #267*

A:	250,000			x	?	?	8,970	241,030
D:	40,000			x	?	?	7,800	32,200

Guise, #268

A:	260,000			x	?	?	12,000	248,000
D:	200,000			x	?	?	8,000	192,000

The Heights of Nancy, #269*

A:	350,000			x	?	?	75,000	275,000
D:	276,000			x	?	?	52,000	224,000

The Ourcq I, #270

A:	100,000	x			100,000	0	5,600	94,400
D:	45,000	x			45,000	0	2,500	42,500

TASK 2: STRENGTH CLARIFICATION

The Ourcq, II, #271

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	198,000			x	?	?	40,000	158,000
D:	157,000			x	?	?	39,000	118,000

The Petit Morin, #272

A:	227,000			x	?	?	45,000	182,000
D:	82,000			x	?	?	19,000	63,000

The Two Morins, #273

A:	90,000			x	?	?	2,500	87,500
D:	13,000			x	?	?	3,500	9,500

The Marshes of St. Gond, #274

A:	101,000			x	?	?	25,000	76,000
D:	141,000			x	?	?	29,000	112,000

Vitry le Francois, #275

A:	113,000			x	?	?	26,000	87,000
D:	170,000			x	?	?	27,000	143,000

The Gap of Revigny, #276

A:	142,000			x	?	?	29,000	113,000
D:	180,000			x	?	?	29,000	151,000

TASK 2: STRENGTH CLARIFICATION

The Aisne, #277

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	343,000			x	?	?	50,000	293,000
D:	290,000			x	?	?	30,000	260,000

Stalluponen, #278

A:	50,000	x			50,000	0	3,500	46,500
D:	40,000			x	?	?	2,000	38,000

Gumbinnen, #279

A:	120,000	x			120,000	0	20,000	100,000
D:	150,000	x			150,000	0	20,000	130,000

Tannenberg, #280

A:	187,000			x	?	?	13,212	173,788
D:	160,000			x	?	?	120,000	40,000

Masurian Lakes, #281

A:	288,600	x			288,600	0	40,000	248,600
D:	273,000	x			273,000	0	125,000	148,000

Krasnik, #282

A:	350,000			x	?	?	50,000	300,000
D:	260,000			x	?	?	50,000	210,000

TASK 2: STRENGTH CLARIFICATION

Komarov, #283

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	300,000			x	?	?	40,000	260,000
D:	260,000			x	?	?	90,000	170,000

The Gnila Lipa, #284

A:	240,000			x	?	?	76,000	164,000
D:	480,000			x	?	?	35,000	445,000

Rava Russka, #285

A:	900,000			x	?	?	180,000	720,000
D:	936,000			x	?	?	82,000	854,000

Lodz, #286

A:	260,000			x	?	?	60,000	200,000
D:	400,000			x	?	?	95,000	305,000

The Jadar, #287

A:	200,000			x	?	?	34,000	166,000
D:	200,000			x	?	?	18,000	182,000

The Kolubra, #288

A:	200,000			x	?	?	45,000	155,000
D:	300,000			x	?	?	92,000	208,000

TASK 2: STRENGTH CLARIFICATION

Eastern Champagne, #289*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	163,182	x			163,182	?	42,820	?
D:	85,220	x			85,220	?	23,050	?

Neuve Chapelle, #290*

A:	87,000			x	?	?	12,892	74,108
D:	40,000			x	20,000	20,000	12,000	28,000

Ypres II, #291*

A:	150,000			x	?	?	35,000	115,000
D:	190,000			x	?	?	70,000	120,000

Festubert, #292*

A:	90,365			x	?	?	16,648	73,717
D:	30,000			x	?	?	5,000	25,000

Loos, #293

A:	298,437			x	?	?	61,713	236,724
D:	75,000			x	?	?	19,836	55,164

The Winter Battle (Masuria), #294

A:	650,000			x	?	?	135,000	515,000
D:	300,000			x	?	?	210,000	90,000

TASK 2: STRENGTH CLARIFICATION

Gorlice-Tarnow (Opening Phase Only), #295

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	216,000	x			216,000	0	36,000	180,000
D:	219,000	x			219,000	0	153,654	65,346

First Isonzo, #296

A:	200,000			x	?	?	14,947	185,053
D:	100,000			x	?	?	9,958	90,042

Second Isonzo, #297

A:	200,000			x	?	?	41,866	158,134
D:	128,500			x	?	?	46,640	81,860

Third Isonzo, #298

A:	356,000			x	?	?	67,008	288,992
D:	157,000			x	?	?	31,474	125,526

Fourth Isonzo, #299

A:	311,000			x	?	?	48,967	262,033
D:	136,000			x	?	?	40,217	95,783

First Dardanelles Landing, #300*

A:	32,000			x	?	?	5,400	26,600
D:	10,000			x	?	?	3,900	6,100

TASK 2: STRENGTH CLARIFICATION

Suvla Bay, #301*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	25,000	x	-	-	25,000	0	9,000	16,000
D:	15,800			x	1,800	14,000	750	15,050

Kut-el-Amara, #302

A:	11,000	x			11,000	0	1,230	9,770
D:	11,300	x			11,300	0	5,300	6,000

Ctesiphon, #303

A:	13,756	x			13,756	0	4,593	9,163
D:	20,400			x	?	?	6,188	14,212

First Somme, #304

A:	600,000	x			600,000	?	670,000	?
D:	300,000	x			300,000	?	500,000	?

Somme, Fourth Army Attack, #305

A:	290,000	x			290,000	0	57,450	232,550
D:	95,000	x			95,000	0	8,000	87,000

Somme, Ovillers, #306

A:	11,300	x			11,300	0	5,121	6,179
D:	2,800	x			2,800	0	281	2,519

TASK 2: STRENGTH CLARIFICATION

Somme, Bazentin Ridge, #307

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	45,000	x			45,000	0	9,000	36,000
D:	15,000	x			15,000	?	4,000	?

Somme, Flers-Courcelette, #308

A:	190,000	x			190,000	0	3,500	186,500
D:	90,000	x			90,000	0	3,000	87,000

Caucasus Winter Offensive, #309

A:	103,000			x	?	?	8,000	95,000
D:	61,000			x	?	?	25,000	36,000

Lake Narotch, #310

A:	350,000			x	?	?	100,000	250,000
D:	180,000			x	?	?	20,000	160,000

1916 Brusilov Offensive, #311

A:	600,000	x			600,000	?	495,000	?
D:	500,000	x			500,000	?	260,000	?

Fifth Isonzo, #312

A:	300,000			x	?	?	3,800	296,200
D:	160,000			x	?	?	1,985	158,015

TASK 2: STRENGTH CLARIFICATION

Asiago, #313

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	213,000	x	-	-	213,000	?	41,264	?
D:	118,000	x			118,000	?	74,887	?

Trentino Counteroffensive, #314

A:	200,000	x			200,000	?	72,000	?
D:	172,000	x			172,000	?	29,000	?

Sixth Isonzo (Gorizia), #315

A:	308,000	x			308,000	?	51,232	?
D:	168,000	x			168,000	?	41,835	?

Arras, #316

A:	276,000	x			276,000	?	83,379	?
D:	120,000	x			120,000	?	75,000	?

Aisne II, #317

A:	1,000,000			x	?	?	118,000	882,000
D:	480,000			x	?	?	40,000	440,000

Messines, #318

A:	180,000	x			180,000	?	17,000	?
D:	100,000	x			100,000	?	32,500	?

TASK 2: STRENGTH CLARIFICATION

Ypres III, #319

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	380,000	x			380,000	?	399,821	?
D:	200,000	x			200,000	?	270,710	?

Cambrai I, #320

A:	90,000	x			90,000	?	15,000	?
D:	75,000	x			75,000	?	25,000	?

Cambrai II, #321

A:	130,000	x			130,000	?	28,000	?
D:	90,000	x			90,000	?	29,000	?

Tenth Isonzo, #322

A:	280,000	x			280,000	?	157,000	?
D:	165,000	x			165,000	?	75,700	?

Eleventh Isonzo, #323

A:	518,000	x			518,000	?	166,000	?
D:	252,000	x			252,000	?	85,000	?

Caporetto (Twelfth Isonzo), #324

A:	602,000		x		?	?	20,000	582,000
D:	574,000		x		?	?	305,000	269,000

TASK 2: STRENGTH CLARIFICATION

Crossing of the Tigris, #325

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	46,000	-	-	x	?	?	2,750	43,250
D:	10,500			x	?	?	4,300	6,200

Gaza I, #326

A:	25,000	x			25,000	0	4,000	21,000
D:	26,000	x			26,000	0	2,450	23,550

Gaza II, #327

A:	25,000	x			25,000	0	6,400	18,600
D:	20,000	x			20,000	0	2,000	18,000

Gaza III, #328

A:	72,000			x	?	?	2,696	69,304
D:	34,400			x	?	?	2,950	31,450

Junction Station, #329

A:	85,000	x			85,000	0	4,000	81,000
D:	15,500	x			15,500	0	4,800	10,700

Second Somme, Phase I (Somme-Personne), #330

A:	800,000	x			800,000	?	70,000	?
D:	400,000	x			400,000	?	120,000	?

TASK 2: STRENGTH CLARIFICATION

Second Somme, Phase II (Somme-Montdidier), #331

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	700,000	x			700,000	?	133,000	?
D:	600,000	x			600,000	?	140,000	?

Lys, #332

A:	500,000		x		?	?	175,000	325,000
D:	400,000		x		?	?	152,000	247,000

Yvonne and Odette Positions, Sector Toulon, Verdun, #333

A:	3,072	x			3,072	0	71	3,001
D:	650	x			650	0	72	578

Chemin des Dames, #334*

A:	250,000	x			250,000	?	118,000	?
D:	75,000	x			75,000	?	128,000	?

Cantigny, #335

A:	8,679	x			8,679	0	300	8,379
D:	725	x			725	0	386	339

Belleau Wood, #336

A:	9,437	x			9,437	0	1,087	8,350
D:	6,436	x			6,436	0	730	5,706

TASK 2: STRENGTH CLARIFICATION

Hill 142, #337

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	2,913	-	-	x	?	?	383	2,530
D:	2,458			x	?	?	471	1,987

West Wood I, #338

A:	1,740	x			1,740	0	361	1,379
D:	1,121	x			1,121	0	54	1,067

Bouresches I, #339

A:	2,733	x			2,733	0	343	2,390
D:	1,352	x			1,352	0	186	1,166

Hill 192, #340

A:	3,608	x			3,608	0	340	3,268
D:	3,955	x			3,955	0	87	3,868

West Wood II, #341

A:	3,343	x			3,343	0	279	3,064
D:	1,798	x			1,798	0	541	1,257

North Wood I, The Hunting Lodge, #342

A:	1,747	x			1,747	0	167	1,580
D:	1,952	x			1,952	0	293	1,659

TASK 2: STRENGTH CLARIFICATION

Bouresches II, #343

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	3,690	x			3,690	0	138	3,552
D:	2,629	x			2,629	0	107	2,522

North Wood II, #344

A:	1,697	x			1,697	0	192	1,505
D:	1,428	x			1,428	0	18	1,410

North Wood III, #345

A:	1,256	x			1,256	0	133	1,123
D:	1,565	x			1,565	0	19	1,546

North Wood IV (Final Assault), #346

A:	4,453			x	?	?	273	4,180
D:	1,546			x	?	?	437	1,109

Vaux, #347

A:	12,812	x			12,812	0	336	12,476
D:	10,358			x	?	?	1,074	9,284

La Roche Wood East, #348

A:	4,515	x			4,515	0	94	4,421
D:	5,182	x			5,182	0	568	4,614

TASK 2: STRENGTH CLARIFICATION

La Roche Wood West, #349

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	4,508	x			4,508	0	223	4,285
D:	5,177	x			5,177	0	506	4,671

Noyon-Montdidier, #350

A:	275,000			x	?	?	80,000	195,000
D:	300,000			x	?	?	35,466	264,534

Champagne-Marne, #351

A:	400,000			x	?	?	100,000	300,000
D:	450,000			x	?	?	40,000	410,000

Aisne-Marne I, #352

A:	750,000	x			750,000	?	55,000	?
D:	450,000			x	?	?	50,000	400,000

Missy aux Bois Ravine, #353

A:	5,004	x			5,004	0	393	4,611
D:	3,013	x			3,013	0	1,853	1,160

Breuil, #354

A:	5,039	x			5,039	0	448	4,591
D:	2,663	x			2,663	0	1,243	1,420

TASK 2: STRENGTH CLARIFICATION

St. Amand Farm, #355

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	1,150	x			1,150	0	120	1,030
D:	400	x			400	0	400	0

Beaurepaire Farm, #356

A:	4,480	x			4,480	0	125	4,355
D:	565	x			565	0	181	384

Cravancon Ferme-Chaudun, #357

A:	10,345	x			10,345	0	895	9,450
D:	2,420	x			2,420	0	1,610	810

Chaudun, #358

A:	1,611	x			1,611	0	130	1,481
D:	800	x			800	0	500	300

Aisne-Marne II, #359

A:	725,000			x	?	?	195,000	530,000
D:	400,000			x	?	?	170,000	230,000

Berzy le Sec, #360

A:	4,000	x			4,000	0	210	3,790
D:	350	x			350	0	116	234

TASK 2: STRENGTH CLARIFICATION

Buzancy Ridge, #361

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	5,300	x			5,300	0	350	4,950
D:	554	x			554	0	276	278

Picardy, 1918, Phase I, #362

A:	225,000	x			?	?	10,000	?
D:	170,000	x			?	?	30,000	?

Picardy, 1918, Phase II, #363

A:	300,000	x			?	?	35,000	?
D:	200,000	x			?	?	80,000	?

St. Mihiel, #364

A:	400,000		x		?	?	7,000	393,000
D:	100,000		x		?	?	20,000	80,000

Lahayville-Bois de Lamarche, #365

A:	13,208	x			13,208	0	185	13,023
D:	2,090	x			2,090	0	1,076	1,014

Meuse-Argonne, Phase I, #366

A:	300,000	x			300,000	?	22,128	?
D:	190,000	x			190,000	?	21,448	?

TASK 2: STRENGTH CLARIFICATION

Blanc Mont I, #367

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	26,000			x	?	?	4,700	21,300
D:	13,000			x	?	?	4,000	9,000

Medeah Farm, #368

A:	1,921	x			1,921	0	247	1,674
D:	155	x			155	0	83	72

Essen Hook, #369

A:	1,420	x			1,420	0	140	1,280
D:	216	x			216	0	120	96

Blanc Mont Ridge, #370

A:	7,800	x			7,800	0	308	7,492
D:	670	x			670	0	450	220

Sommepy Wood, #371

A:	9,230	x			9,230	0	149	9,081
D:	458	x			458	0	241	217

Blanc Mont II, #372

A:	18,000	x			18,000	0	1,589	16,411
D:	10,000	x			10,000	0	500	9,500

TASK 2: STRENGTH CLARIFICATION

Meuse-Argonne, Phase II, #373

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	500,000	x			500,000	?	77,448	?
D:	300,000	x			300,000	?	75,068	?

Exermont-Montrefagne, #374*

A:	5,336	x			5,336	0	352	4,984
D:	3,245	x			3,245	0	192	3,053

Mayache Ravine, #375

A:	5,427	x			5,427	0	376	5,051
D:	1,899	x			1,899	0	114	1,785

La Neuville le Comte Ferme, #376

A:	5,365	x			5,365	0	340	5,025
D:	1,940	x			1,940	0	61	1,879

Ferme des Granges-Fleville, #377

A:	5,461	x			5,461	0	242	5,219
D:	2,587		x		?	?	250	2,337

Hill 212, #378

A:	5,022	x			5,022	0	301	4,721
D:	3,335	x			3,335	0	173	3,162

TASK 2: STRENGTH CLARIFICATION

Bois de Boyon-Montrefagne, #379

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	4,778	x			4,778	0	132	4,646
D:	2,925	x			2,925	0	126	2,799

Hill 242, #380

A:	2,950	x			2,950	0	109	2,841
D:	2,563	x			2,563	0	250	2,313

Meuse-Argonne, Phase III, #381

A:	600,000	x			600,000	?	30,426	?
D:	380,140	x			380,140	?	29,491	?

Remilly-Aillicourt, #382

A:	1,210	x			1,210	0	25	1,185
D:	296	x			296	0	30	266

Hill 252-Pont Maugis, #383

A:	1,989	x			1,989	0	110	1,879
D:	1,655	x			1,655	0	182	1,473

The Piave, #384

A:	840,000			x	?	?	150,000	690,000
D:	784,000			x	?	?	69,079	714,921

TASK 2: STRENGTH CLARIFICATION

Megiddo, #385*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	51,170	x	-	-	51,170	0	3,378	47,792
D:	18,250	x	-	-	18,250	0	7,000	11,250

Alam Halfa, #386

A:	124,000	x	-	-	124,000	0	2,940	121,060
D:	120,000	x	-	-	120,000	0	1,750	118,250

El Alamein II, #387

A:	220,476	x	-	-	220,476	0	13,560	206,916
D:	105,223	x	-	-	105,223	0	15,995	89,228

Operation "Lightfoot," #388

A:	220,476	x	-	-	220,476	0	6,140	214,336
D:	105,223	x	-	-	105,223	0	3,695	101,528

Alamein Bridgehead Expansion, #389

A:	214,336	x	-	-	214,336	0	3,000	211,336
D:	101,528	x	-	-	101,528	0	4,500	97,028

Operation "Supercharge," #390

A:	211,000	x	-	-	211,000	0	4,420	206,580
D:	97,000	x	-	-	97,000	0	7,800	89,200

TASK 2: STRENGTH CLARIFICATION

Chouigui Pass, #391*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	465	x			465	0	27	438
D:	188	x			188	0	21	167

El Guettar, #392

A:	10,300	x			10,300	0	450	9,850
D:	22,019	x			22,019	0	203	21,816

Sedjenane-Bizerta, #393

A:	24,098	x			24,098	?	1,120	?
D:	5,000	x			5,000	?	605	?

Amphitheater, #394

A:	12,917	x			12,917	0	1,154	11,763
D:	4,250	x			4,250	0	100	4,150

Port of Salerno, #395

A:	12,917	x			12,917	0	1,530	11,387
D:	4,250	x			4,250	?	120	?

Sele-Calore Corridor, #396

A:	12,447	x			12,447	0	251	12,196
D:	8,390	x			8,390	0	60	8,330

TASK 2: STRENGTH CLARIFICATION

Battipaglia I, #397

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	14,730	x			14,730	?	1,112	?
D:	11,230	x			11,230	0	1,639	9,591

Vietri I, #398*

A:	15,000	x			15,000	?	900	?
D:	12,917	x			12,917	514	1,164	12,267

Tobacco Factory, #399

A:	14,733	x			14,733	?	702	?
D:	12,691	x			12,691	0	317	12,374

Battipaglia II, #400

A:	14,730	x			14,730	0	300	14,430
D:	6,995	x			6,995	?	110	?

Eboli, #401

A:	15,576	x			15,576	?	386	?
D:	6,702	x			6,702	?	120	?

Vietri II, #402*

A:	13,300	x			13,300	?	400	?
D:	18,912	x			18,912	337	255	18,994

TASK 2: STRENGTH CLARIFICATION

Grazzanise, #403

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	14,557	x			14,557	?	370	?
D:	8,068	x			8,068	?	80	?

Caiazzo, #404

A:	18,210	x			18,210	?	140	?
D:	6,435	x			6,435	?	52	?

Capua, #405

A:	16,857	x			16,857	0	420	16,437
D:	8,000	x			8,000	0	94	7,906

Castel Volturno, #406

A:	17,765	x			17,765	?	500	?
D:	8,158	x			8,158	?	40	?

Monte Acero, #407

A:	21,265	x			21,265	?	133	?
D:	6,435	x			6,435	?	130	?

Triflisco, #408

A:	18,476	x			18,476	?	267	?
D:	7,250	x			7,250	?	76	?

TASK 2: STRENGTH CLARIFICATION

Dragon1 #409

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	17,034	x			17,034	?	65	?
D:	5,152	x			5,152	?	103	?

Canal I, #410

A:	14,600	x			14,600	?	125	?
D:	8,138	x			8,138	?	45	?

Monte Grande (Vulturno), #411

A:	16,400	x			16,400	?	200	?
D:	7,239	x			7,239	?	66	?

Canal II, #412

A:	17,500	x			17,500	?	220	?
D:	8,128	x			8,128	?	138	?

Francolise, #413

A:	14,000	x			14,000	?	75	?
D:	8,088	x			8,088	?	44	?

Santa Maria Oliveto, #414

A:	16,870	x			16,870	?	416	?
D:	6,321	x			6,321	?	185	?

TASK 2: STRENGTH CLARIFICATION

Monte Camino I, #415

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	19,513	x			19,513	?	240	?
D:	6,750	x			6,750	?	33	?

Monte Lungo, #416

A:	16,600	x			16,600	?	361	?
D:	6,566	x			6,566	?	25	?

Pozzilli, #417

A:	17,404	x			17,404	?	155	?
D:	6,566	x			6,566	?	25	?

Monte Camino II, #418

A:	7,942	x			7,942	?	34	?
D:	5,200	x			5,200	?	310	?

Monte Rotondo, #419

A:	16,350	x			16,350	?	165	?
D:	7,942	x			7,942	?	118	?

Calabritto, #420

A:	17,765	x			17,765	?	250	?
D:	7,588	x			7,588	?	20	?

TASK 2: STRENGTH CLARIFICATION

Monte Camino III, #421

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	20,744	x	-	-	20,744	?	550	?
D:	3,288	x	-	-	3,288	?	141	?

Monte Maggiore, #422

A:	5,551	x	-	-	5,551	?	80	?
D:	3,288	x	-	-	3,288	?	20	?

Aprilia I, #423

A:	19,350	x	-	-	19,350	?	1,158	?
D:	6,750	x	-	-	6,750	?	130	?

The Factory, #424

A:	15,317	x	-	-	15,317	0	366	14,951
D:	17,976	x	-	-	17,976	0	62	17,914

Campoleone, #425

A:	17,766	x	-	-	17,766	?	742	?
D:	15,098	x	-	-	15,098	?	221	?

Campoleone Counterattack, #426

A:	26,029	x	-	-	26,029	?	1,318	?
D:	9,834	x	-	-	9,834	?	1,450	?

TASK 2: STRENGTH CLARIFICATION

Carroceto, #427

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	26,490	x			26,490	?	341	?
D:	4,515	x			4,515	?	369	?

Moletta River Defense, #428

A:	7,418	x			7,418	?	167	?
D:	5,000	x			5,000	?	107	?

Aprilia II, #429

A:	27,518	x			27,518	0	270	27,248
D:	17,730	x			17,730	0	311	17,419

Factory Counterattack, #430

A:	13,400	x			13,400	?	101	?
D:	7,077	x			7,077	?	206	?

Bowling Alley, #431

A:	41,974	x			41,974	?	2,238	?
D:	20,496	x			20,496	?	1,018	?

Moletta River II, #432

A:	21,478	x			21,478	?	1,451	?
D:	9,761	x			9,761	?	1,693	?

TASK 2: STRENGTH CLARIFICATION

Fioccia, #433

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	15,637	x			15,637	?	265	?
D:	19,613	x			19,613	?	403	?

Santa Maria Infante, #434

A:	18,702	x			18,702	?	531	?
D:	9,250	x			9,250	?	1,035	?

San Martino, #435

A:	17,970	x			17,970	?	1,974	?
D:	8,141	x			8,141	?	720	?

Castellonorato, #436

A:	16,458	x			16,458	?	537	?
D:	7,500	x			7,500	?	442	?

Spigno, #437

A:	18,308	x			18,308	?	343	?
D:	8,215	x			6,653	?	730	?

Formia, #438

A:	23,190	x			23,190	?	405	?
D:	7,627	x			7,627	?	721	?

TASK 2: STRENGTH CLARIFICATION

Monte Grande (Rome), #439

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	13,095	x	-	-	13,095	?	203	?
D:	4,563	x	-	-	4,563	?	332	?

Itri-Fondi, #440

A:	17,912	x	-	-	17,912	?	257	?
D:	6,653	x	-	-	6,653	?	380	?

Terracina, #441

A:	18,030	x	-	-	18,030	?	287	?
D:	6,653	x	-	-	6,653	?	380	?

Moletta Offensive, #442

A:	17,345	x	-	-	17,345	?	234	?
D:	12,569	x	-	-	12,569	?	468	?

Anzio-Albano Road, #443

A:	17,313	x	-	-	17,313	?	194	?
D:	11,343	x	-	-	11,343	?	107	?

Anzio Breakout, #444

A:	22,374	x	-	-	22,374	?	710	?
D:	12,815	x	-	-	12,815	?	1,355	?

TASK 2: STRENGTH CLARIFICATION

Cisterna, #445

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	19,971	x			19,971	?	1,524	?
D:	11,928	x			11,928	?	1,617	?

Sezze, #446

A:	17,925	x			17,925	?	162	?
D:	6,957	x			6,957	?	227	?

Velletri, #447

A:	20,683	x			20,683	0	767	19,916
D:	12,327	x			12,327	0	1,319	11,008

Campoleone Station, #448

A:	19,047	x			19,047	?	517	?
D:	10,593	x			10,593	?	580	?

Villa Crocetta, #449

A:	18,000	x			18,000	?	263	?
D:	13,715	x			13,715	?	598	?

Ardea, #450

A:	15,557	x			15,557	?	245	?
D:	7,659	x			7,659	?	374	?

TASK 2: STRENGTH CLARIFICATION

Fosso di Campoleone, #451

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	29,711	x			29,711	?	1,304	?
D:	15,801	x			15,801	?	1,379	?

Lanuvio, #452

A:	17,300	x			17,300	?	825	?
D:	6,108	x			6,108	?	698	?

Lariano, #453

A:	22,641	x			22,641	?	329	?
D:	13,012	x			13,012	?	1,178	?

Via Anziate, #454

A:	23,604	x			23,604	?	316	?
D:	19,255	x			19,255	?	884	?

Valmontone, #455

A:	26,607	x			26,607	?	710	?
D:	10,111	x			10,111	?	568	?

Tarto-Tiber, #456

A:	38,011	x			38,011	?	572	?
D:	10,855	x			10,855	?	850	?

TASK 2: STRENGTH CLARIFICATION

Il Gioglio Pass, #457

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	15,721	x			15,721	0	560	15,161
D:	3,700	x			3,700	?	560	?

St. Lo, #458

A:	18,228	x			18,228	?	2,777	?
D:	7,500	x			7,500	?	2,350	?

Operation "Goodwood," #459

A:	76,213	x			76,213	?	4,011	?
D:	57,500	x			57,500	?	5,000	?

Operation "Cobra," #460

A:	126,000	x			126,000	?	1,510	?
D:	30,700	x			30,700	?	5,000	?

Mortain, #461*

A:	25,497	x			25,497	?	4,800	?
D:	27,673			x	13,690	13,983	2,673	25,000

Chartres, #462

A:	15,646	x			15,646	0	113	15,533
D:	8,325	x			8,325	0	579	7,746

TASK 2: STRENGTH CLARIFICATION

Melun, #463

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	17,232	x			17,232	0	99	17,133
D:	6,000	x			6,000	0	362	5,638

Seine River, #464

A:	40,619	x			40,619	?	234	?
D:	15,000	x			15,000	?	906	?

Moselle-Metz, #465

A:	59,631	x			59,631	?	1,647	?
D:	41,500	x			41,500	?	1,700	?

Metz, #466

A:	60,794	x			60,794	0	359	60,435
D:	39,580	x			39,580	0	210	39,370

Arracourt, #467

A:	10,000			x	?	?	779	?
D:	3,894	x			3,894	?	119	?

Westwall, #468*

A:	32,283	x			25,345	12,006	1,477	35,874
D:	19,632	x			10,844	16,290	3,616	23,518

105
37351
27134

TASK 2: STRENGTH CLARIFICATION

Schmidt, #469*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	20,493		x		?	3,903	3,683	?
D:	20,250			x	?	?	3,000	17,250

Seille-Nied, #470

A:	99,583	x			99,583	?	4,265	?
D:	23,588	x			23,588	?	4,880	?

Foret de Chateau Salins, #471

A:	43,587	x			43,587	?	720	?
D:	11,185	x			11,185	?	446	?

Morhange, #472

A:	25,881	x			25,881	?	1,006	?
D:	7,555	x			7,555	?	197	?

Morhange-Faulquemont, #473

A:	92,393	x			92,393	?	3,223	?
D:	28,382	x			28,382	?	2,665	?

Bourgaltroff, #474

A:	10,348	x			10,348	?	185	?
D:	6,519	x			6,519	?	141	?

TASK 2: STRENGTH CLARIFICATION

Sarre-St. Avoild, #475*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	88,941	x			88,941	?	3,279	?
D:	32,396	x			32,396	?	4,942	?

Baerendorf I, #476

A:	7,935	x			7,935	?	58	?
D:	5,366	x			5,366	?	224	?

Baerendorf II, #477

A:	15,871	x			15,871	0	56	15,815
D:	6,999	x			6,999	0	233	6,766

Burbach-Durstel, #478

A:	16,232	x			16,232	?	110	?
D:	6,713	x			6,713	?	616	?

Durstel-Faerbersviller, #479

A:	90,078	x			90,078	?	482	?
D:	30,712	x			30,712	?	811	?

Sarre-Union, #480

A:	19,773	x			19,773	?	234	?
D:	6,044	x			6,044	?	129	?

TASK 2: STRENGTH CLARIFICATION

Sarre-Singling, #481

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	89,977	x			89,977	?	835	?
D:	31,501	x			31,501	?	1,774	?

Singling-Bining, #482

A:	15,224	x			15,224	0	155	15,069
D:	5,044	x			5,044	0	121	4,923

Sauer River, #483

A:	10,000			x	?	?	268	9,732
D:	8,634			x	?	?	134	8,500

St. Vith, #484*

A:	87,000			x	?	?	4,306	82,694
D:	19,996			x	?	?	1,731	18,265

Bastogne, #485*

A:	36,678			x	?	?	3,000	33,678
D:	4,849			x	?	?	1,151	3,698

Sedan-Meuse River, #486

A:	48,000	x			48,000	?	800	?
D:	60,000	x			60,000	?	5,000	?

TASK 2: STRENGTH CLARIFICATION

Jitra, #487

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	7,000	x			7,000	0	600	6,400
D:	12,000	x			12,000	0	1,200	10,800

Rovno, #488

A:	132,000	x			132,000	?	3,960	?
D:	150,000	x			150,000	?	88,000	?

The Defense of Moscow, #489

A:	1,100,000	x			1,100,000	?	253,000	?
D:	1,372,000	x			1,372,000	?	885,000	?

Soviet Counteroffensive at Moscow, #490*

A:	1,060,300	x			1,060,300	?	139,000	?
D:	880,000	x			880,000	?	85,300	?

The Pogoreloye Gorodische Offensive, #491*

A:	54,180	x			54,180	37,300	21,327	70,153
D:	12,035	x			12,035	33,872	6,534	39,373

Leningrad (Operation "Spark"), #492

A:	120,000	x			120,000	?	28,000	?
D:	30,000	x			30,000	?	4,150	?

TASK 2: STRENGTH CLARIFICATION

The Oboyan-Kursk Axis, Phase I, #493

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	62,000	x			62,000	?	1,364	?
D:	45,000	x			45,000	?	5,680	?

Operation "Citadel," Southern Sector, #494

A:	140,000	x			140,000	0	3,180	136,820
D:	75,000	x			75,000	0	4,900	70,100

The Oboyan-Kursk Axis, Phase II, #495

A:	60,000			x	?	?	3,500	56,500
D:	149,000			x	?	?	25,800	123,200

The Oboyan-Kursk Axis, Phase III, #496

A:	56,000	x			?	?	2,900	?
D:	129,000	x			?	?	30,200	?

Prokhorovka, #497

A:	78,000	x			78,000	?	5,700	?
D:	82,300	x			82,300	?	5,100	?

Kursk Counteroffensive (Southern Sector), #498

A:	980,600	x			980,600	?	117,700	?
D:	280,000	x			280,000	?	39,500	?

TASK 2: STRENGTH CLARIFICATION

Belgorod, #499

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	70,000	x	-	-	70,000	?	11,676	?
D:	15,000	x	-	-	15,000	?	2,405	?

Melitopol, #500

A:	524,724	x	-	-	524,724	?	79,000	?
D:	210,000	x	-	-	210,000	?	36,500	?

Korsun-Shevchenkivskiy, #501

A:	254,950	x	-	-	254,950	?	63,500	?
D:	84,500	x	-	-	84,500	?	68,000	?

Nikopol Bridgehead, #502

A:	25,100	x	-	-	25,100	0	610	24,490
D:	8,230	x	-	-	8,230	0	480	7,750

Sevastopol, #503

A:	397,607	x	-	-	397,607	?	35,500	?
D:	72,000	x	-	-	72,000	0	48,500	23,500

The Berezina River, Byelorussian Offensive, #504

A:	16,100	x	-	-	16,100	?	670	?
D:	8,500	x	-	-	8,500	?	4,795	?

TASK 2: STRENGTH CLARIFICATION

The Lvov-Sandomierz Offensive, #505

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	1,200,000	x			1,200,000	?	37,400	?
D:	900,000		x		?	?	198,000	702,000

Brody, Phase I, #506

A:	39,000	x			39,000	0	980	38,020
D:	3,300	x			3,300	0	720	2,580

Brody, Phase II, #507

A:	38,500	x			38,500	0	1,750	36,750
D:	12,900	x			12,900	0	490	12,410

Assault Crossing of the Vistula River, Phase I, #508

A:	12,700	x			12,700	?	1,150	?
D:	5,100	x			5,100	?	320	?

Vistula River Operation, Pulawy, Phase II, #509

A:	17,550	x			17,550	?	3,040	?
D:	6,400	x			6,400	?	785	?

Yassy-Kishinev, #510

A:	1,250,000	x			1,250,000	?	135,000	?
D:	800,000	x			800,000	?	690,000	?

TASK 2: STRENGTH CLARIFICATION

Vistula-Oder, #511

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	2,200,000	x			2,200,000	?	46,900	?
D:	560,000	x			560,000	?	147,400	?

East Prussia, #512

A:	1,220,000	x			1,220,000	?	112,000	?
D:	780,000	x			780,000	?	126,000	?

Ciechanow, Phase I, #513

A:	10,800	x			10,800	?	685	?
D:	3,100	x			3,100	?	145	?

Ciechanow, Phase II, #514

A:	12,115	x			12,115	?	850	?
D:	3,900	x			3,900	?	230	?

Seelow Heights, #515*

A:	13,600		x		13,293	1,110	474	13,929
D:	3,710		x		3,782	0	150	3,632

Mutankiang, #516

A:	147,000	x			147,000	?	10,000	?
D:	75,000	x			75,000	?	36,000	?

TASK 2: STRENGTH CLARIFICATION

Tarawa-Betio, #517*

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	9,000			x	5,000	4,000	3,302	5,698
D:	4,836	x			4,836	0	4,836	0

Iwo Jima, Into the Main Defenses, #518

A:	33,915	x			33,915	?	6,845	?
D:	18,300	x			18,300	?	15,615	?

Iwo Jima, Suribachi, #519

A:	3,200	x			3,200	?	510	?
D:	1,600			x	1,600	0	1,231	369

Iwo Jima, Final Phase, #520

A:	32,000	x			32,000	?	3,885	?
D:	2,685			x	2,685	0	2,685	0

Advance from the Beach, #521

A:	22,888	x			22,888	?	158	?
D:	1,400	x			1,400	?	628	?

Advance through the Outposts, #522

A:	18,398	x			18,398	?	286	?
D:	2,900	x			2,900	?	2,120	?

TASK 2: STRENGTH CLARIFICATION

Tomb Hill-Ouki, #523

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	18,111	x			18,111	?	466	?
D:	4,731	x			4,731	?	1,278	?

Skyline Ridge-Rocky Crag, #524

A:	16,291	x			16,291	?	740	?
D:	2,600	x			2,600	?	1,661	?

Kochi Ridge-Onaga I, #525

A:	14,594	x			14,594	?	269	?
D:	5,000	x			5,000	?	1,324	?

Kochi Ridge-Onaga II, #526

A:	15,986	x			15,986	?	182	?
D:	4,500	x			4,500	?	814	?

Kochi Ridge-Onaga III, #527

A:	15,764	x			15,764	?	398	?
D:	4,050	x			4,050	?	2,276	?

Japanese Counterattack, 4-5 May, #528

A:	6,850	x			6,850	?	3,704	?
D:	15,350	x			15,350	?	339	?

TASK 2: STRENGTH CLARIFICATION

Kochi Ridge IV, #529

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	15,109	x	-	-	15,109	?	114	?
D:	5,140	x	-	-	5,140	?	1,464	?

Shuri Envelopment, Phase I, #530

A:	16,043	x	-	-	16,043	?	170	?
D:	3,338	x	-	-	3,338	?	478	?

Japanese Counterattack, 24/24 May, #531

A:	4,000	x	-	-	4,000	0	1,269	2,731
D:	15,777	x	-	-	15,777	0	241	15,536

Shuri Envelopment, Phase II, #532

A:	15,840	x	-	-	15,840	?	124	?
D:	3,000	x	-	-	3,000	?	434	?

Shuri Envelopment, Phase III, #533

A:	15,205	x	-	-	15,205	?	182	?
D:	2,600	x	-	-	2,600	?	2,564	?

Hill 95-I, #534

A:	16,091	x	-	-	16,091	?	193	?
D:	3,500	x	-	-	3,500	?	1,222	?

TASK 2: STRENGTH CLARIFICATION

Hill 95-II, #535

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	16,002	x			16,002	?	248	?
D:	2,500	x			2,500	?	1,470	?

Yaeju-Dake, #536

A:	5,237	x			5,237	?	48	?
D:	2,500	x			2,500	?	2,401	?

Hills 153 and 115, #537

A:	15,808	x			15,808	?	317	?
D:	2,000	x			2,000	?	1,971	?

Advance from the Beachhead, #538

A:	19,082	x			19,082	?	282	?
D:	2,000	x			2,000	?	1,588	?

Advance to the Shuri Line Outposts, #539

A:	18,388	x			18,388	?	555	?
D:	2,900	x			2,900	?	2,470	?

Kakazu and Tombstone Ridges, #540

A:	21,247	x			21,247	?	1,079	?
D:	3,000	x			3,000	?	2,468	?

TASK 2: STRENGTH CLARIFICATION

Nishibaru Ridge - Tanabaru Escarpment, #541

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	17,163	x	-	-	17,163	?	879	?
D:	3,000	x	-	-	3,000	?	2,860	?

Maeda Escarpment, #542

A:	18,095	x	-	-	18,095	?	479	?
D:	3,900	x	-	-	3,900	?	3,810	?

Attack on the Shuri Line's Eastern Flank I, #543

A:	19,714	x	-	-	19,714	?	502	?
D:	5,284	x	-	-	5,284	?	4,038	?

Attack on the Shuri Line's Eastern Flank II, #544

A:	20,973	x	-	-	20,973	?	590	?
D:	4,757	x	-	-	4,757	?	4,328	?

Attack on the Shuri Line's Eastern Flank III, #545

A:	19,658	x	-	-	19,658	?	313	?
D:	4,227	x	-	-	4,227	?	3,022	?

Advance to the Yuza-Dake/Yaeju-Dake Escarpment, #546

A:	18,777	x	-	-	18,777	?	112	?
D:	4,000	x	-	-	4,000	?	798	?

TASK 2: STRENGTH CLARIFICATION

Initial Attack on the Yuza-Dake/Yaeju-Dake Escarpment, #547

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	18,660	x			18,660	?	88	?
D:	4,250	x			4,250	?	1,006	?

Capture of the Yuza-Dake/Yaeju-Dake Escarpment, #548

A:	19,047	x			19,047	?	576	?
D:	3,250	x			3,250	?	3,220	?

Jenin, #549

A:	10,900	x			10,900	0	225	10,675
D:	6,160	x			6,160	0	200	5,960

Jerusalem, #550

A:	27,682			x	?	?	1,750	25,932
D:	13,600	x			13,600	0	1,500	12,100

Kabatiya, #551

A:	12,800			x	?	?	375	12,425
D:	9,900			x	?	?	350	9,550

Tilfit-Zababida, #552

A:	5,350	x			5,350	0	250	5,100
D:	5,450	x			5,450	0	250	5,200

TASK 2: STRENGTH CLARIFICATION

Nablus, #553

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	10,700	x			10,700	0	375	10,325
D:	8,640			x	?	?	350	8,290

Rafah, #554

A:	19,520	x			19,520	0	700	18,820
D:	19,500	x			19,500	0	2,700	16,800

Bir Lahfan, #555

A:	10,450			x	?	?	90	10,360
D:	10,050	x			10,050	0	1,350	8,700

Abu Ageila-Um Katef, #556

A:	19,280	x			19,280	0	300	18,980
D:	18,450	x			18,450	0	900	17,550

El Arish, #557

A:	6,912	x			6,912	0	135	6,777
D:	12,750	x			12,750	0	225	12,525

Jebel Libni, #558

A:	10,800	x			10,800	0	70	10,730
D:	3,000	x			3,000	0	450	2,550

TASK 2: STRENGTH CLARIFICATION

Gaza Strip, #559

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	12,150	x			12,150	0	55	12,095
D:	17,450	x			17,450	0	626	16,824

Bir Hassna-Bir Thamada, #560

A:	8,700			x	?	?	60	8,640
D:	3,000			x	?	?	550	2,450

Mitla Pass, #561

A:	22,000	x			22,000	0	550	21,450
D:	7,250			x	?	?	90	7,160

Bir Hamma-Bir Gifgafa, #562

A:	10,200			x	?	?	75	10,125
D:	13,500			x	?	?	550	12,950

Nakhl, #563

A:	18,780	x			18,780	0	60	18,720
D:	18,450	x			18,450	0	625	17,825

Bir Gifgafa, #564

A:	3,500	x			3,500	0	450	3,050
D:	3,600			x	?	?	60	3,540

TASK 2: STRENGTH CLARIFICATION

Tel Fahar-Banias, #565

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	5,375	x			5,375	0	300	5,075
D:	8,160	x			8,160	0	850	7,310

Rawiyeh, #566

A:	5,350	x			5,350	0	150	5,200
D:	4,350	x			4,350	0	300	4,050

Zaoura-Kala, #567

A:	5,850	x			5,850	0	230	5,620
D:	8,560	x			8,560	0	500	8,060

Kerama, #568*

A:	11,940	x			11,940	0	201	11,739
D:	16,168	x			16,168	0	497	15,671

Suez Canal Assault-North, #569

A:	29,490			x	?	?	400	29,090
D:	4,455	x			4,455	0	275	4,180

Suez Canal Assault-South, #570

A:	22,850			x	?	?	350	22,500
D:	3,020			x	?	?	225	2,795

TASK 2: STRENGTH CLARIFICATION

Second Army Buildup, #571

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	63,910			x	?	?	800	63,110
D:	14,000			x	?	?	450	13,550

Third Army Buildup, #572

A:	45,160			x	?	?	750	44,410
D:	10,980			x	?	?	400	10,580

Kantara Firdan, #573

A:	25,850	x			25,850	0	700	25,150
D:	67,440	x			67,440	0	700	66,740

Egyptian Offensive-North, #574

A:	81,160	x			81,160	0	1,700	79,460
D:	43,400	x			43,400	0	380	43,020

Egyptian Offensive-South, #575

A:	57,960	x			57,960	0	1,350	56,610
D:	28,600	x			28,600	0	260	28,340

Deversoir (Chinese Farm I), #576

A:	22,790			x	?	?	100	22,690
D:	30,970			x	?	?	500	30,470

TASK 2: STRENGTH CLARIFICATION

Deversoir (Chinese Farm II), #577

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	28,900	x			28,900	0	950	27,950
D:	36,840			x	?	?	2,400	34,440

Deversoir West, #578

A:	19,600	x			19,600	0	300	19,300
D:	18,180	x			18,180	0	800	17,380

Ismailia, #579

A:	17,000			x	?	?	600	16,400
D:	23,860			x	?	?	1,800	22,060

Jebel Geneifa, #580

A:	16,200			x	?	?	300	15,900
D:	35,633			x	?	?	1,650	33,983

Shallufa I, #581

A:	16,200	x			16,200	0	150	16,050
D:	25,600	x			25,600	0	1,100	24,500

Adabiya #582

A:	10,900	x			10,900	0	75	10,825
D:	14,620	x			14,620	0	400	14,220

TASK 2: STRENGTH CLARIFICATION

Shallufa II, #583

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	11,700	x			11,700	0	150	11,550
D:	22,570	x			22,570	0	1,100	21,470

Suez, #584

A:	14,681	x			14,681	0	340	14,341
D:	22,570	x			22,570	0	1,100	21,470

Kuneitra, #585

A:	17,750			x	?	?	350	17,400
D:	3,630			x	?	?	200	3,430

Ahmadiyeh, #586

A:	22,750			x	?	?	700	22,050
D:	5,745			x	?	?	250	5,495

Rafid, #587

A:	19,525	x			19,525	0	350	19,175
D:	4,958	x			4,958	0	250	4,708

Yehudia-El Al, #588

A:	21,984			x	?	?	500	21,484
D:	6,300			x	?	?	150	6,150

TASK 2: STRENGTH CLARIFICATION

Nafekh, #589

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	12,500	x			12,500	0	500	12,000
D:	6,946			x	?	?	250	6,696

Tel Faris, #590

A:	17,833			x	?	?	450	17,383
D:	23,750			x	?	?	1,125	22,625

Hushniyah, #591

A:	12,733			x	?	?	450	12,283
D:	14,683			x	?	?	1,125	13,558

Mount Hermonit, #592

A:	31,650			x	?	?	1,200	30,450
D:	5,395			x	?	?	400	4,995

Mt. Hermon I, #593

A:	2,692	x			2,692	0	50	2,642
D:	1,583	x			1,583	0	100	1,483

Tel Shams, #594

A:	16,100			x	?	?	525	15,575
D:	19,400			x	?	?	1,200	18,200

TASK 2: STRENGTH CLARIFICATION

Tel Shaar, #595

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	14,700			x	?	?	280	14,420
D:	21,500			x	?	?	900	20,600

Tel el Hara, #596

A:	12,500	x			12,500	0	450	12,050
D:	14,300	x			14,300	0	50	14,250

Kfar Shams-Tel Antar, #597

A:	11,000	x			11,000	0	100	10,900
D:	12,000	x			12,000	0	200	11,800

Naba, #598

A:	11,500	x			11,500	0	450	11,050
D:	11,000	x			11,000	0	100	10,900

Arab Counteroffensive, #599

A:	35,750	x			35,750	0	550	35,200
D:	16,100	x			16,100	0	160	15,940

Mount Hermon II, #600

A:	5,700	x			5,700	0	150	5,550
D:	4,750	x			4,750	0	200	4,550

TASK 2: STRENGTH CLARIFICATION

Mount Hermon III, #601

	Strength	1	2	3	Initial Strength	Reinf./Repl.	Casualties	Final Strength
A:	11,400	x			11,400	0	100	11,300
D:	4,750	x			4,750	0	250	4,500

A:								
D:								

A:								
D:								

A:								
D:								

A:								
D:								

A:								
D:								

Task 2 Footnotes

Wimpfen, #3

The defender's strength and casualties are from Bodart, p. 50.

Luetzen, #9

The defender's initial strength is from Sweden, Generalstabén, Vol. VI.

Edgehill, #20

Strength and casualty data is from Young and Adair, pp. 136, 142.

Preston, #26

The attacker's casualties in the Battle of Preston are nowhere specified, not even in the original sources. HERO estimates approximately 100 KIA based upon the brief discussion in Woolrych, p. 178, and adds to this figure 200 WIA, the normal ratio of WIA to KIA at this period being 2:1. Total attacker battle casualties certainly could not have been less than 300, and may have been as high as 600.

Killiecrankie, #40

Casualty data is from Kinross, p. 181, and Smurthwaite, p. 194.

Maxen, #78

All data is from Bodart, p. 237, except defender casualties, which are from Malleson, Ambushes, p. 293.

Torgau, #81

All data is from Duffy, p. 235.

Princeton, #86

The strength of the attacker's force initially engaged was approximately 1,250, composed of 350 men of Mercer's command (Boatner, American Revolution, p. 891) and 900 men of Cadwalader's militia (Dupuy and Dupuy, Compact History of the

Revolutionary War, p. 180). The initial strength of the defender was 800 men (ibid., p. 179).

Freeman's Farm, #87

The strength of the attacker's force which was initially engaged was 3,300 men, from the right and center columns. See Boatner, American Revolution, p. 971.

Monmouth Court House, #90

The strengths of the attacker's and defender's forces initially engaged were 2,000 and 5,000 men respectively. See Boatner, American Revolution, p. 721.

Fleurus, #101

The defender's strength is from Dupuy and Dupuy, Encyclopedia, p. 681.

Lodi, #102

The attacker's initial strength was approximately 6,100 men (3,600 infantry and 2,500 cavalry). See Chandler, Napoleon, pp. 78, 81.

Castiglione, #103

The attacker's initial strength is from Chandler, Dictionary, p. 83.

Wuerzburg, #105

The defender's casualties are from Bodart, p. 312.

Mount Tabor, #110

The defender's reinforcements are from Chandler, Dictionary, p. 431.

Marengo, #115

Two French divisions by themselves opposed the attacking Austrians at the beginning of the battle according to Chandler, Napoleon. The strength of the two divisions was nearly 9,000 men (ibid., p. 1102). This is the estimated initial strength of the

defender.

Hohenlinden, #116

Strength clarification for the defender is from Dodge, Napoleon, II:96.

Austerlitz, #117

The strength of the defender's reinforcements is from Atlas to Accompany Napoleon, map 42. The 8,000 men of Davout's corps are considered reinforcements.

Jena, #118

The attacker's and defender's initial strengths are from Chandler, Napoleon, pp. 479-480.

Auerstadt, #119

Two divisions (Orange's and Wartensleben's) are considered reinforcements for the attacker. Von Lettow-Vorbeck gives Wartensleben's strength as 7,800. Orange's division was organized similarly and is estimated to have had the same strength. Total attacker reinforcements are therefore estimated to be 15,600. Maude, p. 172, gives the strength of Morand's division as 6,200. This figure is considered the defender's reinforcement.

Eylau, #120

A map on p. 539 of Chandler, Napoleon gives the combined strength of Ney's and Davout's corps as 29,100. This is considered the attacker's reinforcement. Lestocq's command of 9,000 men is considered the defender's reinforcement.

Friedland, #121

The attacker's initial strength of 17,000 men (9,000 infantry and 8,000 cavalry under Lannes) is from Chandler, Napoleon, p. 573.

Eckmuehl, #124

The defender's initial strength was 36,000 men, according to Chandler, Napoleon, p. 689.

Aspern-Essling, #125

The defender's initial strength was 23,000 men, according to Chandler, Napoleon, p. 702.

Luetzen, #135

The defender's initial strength was 45,000 men under Ney, according to Esposito and Elting, map 129.

Bautzen, #136

The attacker's reinforcements were 84,000 men under Ney, according to Esposito and Elting, map 131a. The attacker's initial strength was 115,000.

Dresden, #137

Attacker and defender initial and total strengths are from Esposito and Elting, maps 135 and 136.

Leipzig, #138

The initial attacker strength was approximately 200,000 men (Esposito and Elting, map 141) rising to a total strength of 365,000 (Chandler, Napoleon, p. 1,120). The initial defender strength was 177,500 men, with 18,700 as reinforcement (ibid., p. 924).

Hanau, #139

The attacker's initial strength is from Esposito and Elting, map 144.

La Rothiere, #140

The attacker's initial strength was 78,000 men, 53,000 under Bluecher and 25,000 under Wrede (Chandler, Napoleon, p. 960).

Laon, #141

The attacker's reinforcements were 10,000 men under Marmont (Chandler, Napoleon, p. 989).

Arcis-sur-Aube, #142

Attacker and defender initial strengths are from Chandler, Napoleon, p. 1118. Note that this engagement's correct duration

should be two days (20-21 March 1814).

Ligny, #143

The attacker's reinforcements were approximately 18,000 men of the French Imperial Guard. See Dodge, Napoleon, IV:573.

Quatre Bras, #144

The defender's initial strength was approximately 8,000 men according to Chandler, Napoleon, p. 1048.

Waterloo, #145

The defender's initial strength is from Esposito and Elting, map 166 (68,000 men under Wellington).

Lundy's Lane, #148

The attacker's reinforcements are estimated to be approximately two-thirds of the total US force, i.e., two brigades or 1,300 men. See Esposito, West Point Atlas, I, map 11. The defender's initial strength was some 1,700 men according to Jacobs and Tucker, pp. 137-138.

Inkerman, #166

The defender's initial strength was 8,500 men according to Young and Calvert, p. 20.

Sadowa (Koeniggraetz), #169

The attacker's reinforcements consisted of 115,000 men of the Prussian Second Army. See Dupuy, Genius, p. 81.

First Bull Run (First Manassas), #171

The defender's reinforcements were 2,000 men under Kirby Smith, according to Esposito, West Point Atlas, I, map 22.

Belmont, #173

The defender's initial strength was 2,500 men. Total strength committed was 5,000. See Johnson and Buel, I:356. (Johnson and Buel is hereafter cited as B&L.)

Shiloh, #178

Defender reinforcements totalled 25,482 men from Buell's command and Lew Wallace's division. See Johnson and McLaughlin, p. 49.

Port Republic, #182

The attacker's start strength is from Henderson, p. 288. This was 1,200 men of Winder's brigade.

Seven Pines (Fair Oaks), #183

See B&L, II:219, for a breakdown of forces involved in this engagement. The attacker's start strength is for D.H. Hill's division, and the defender's start strength is for Couch's and Casey's troops.

Gaines's Mill, #185

The attacker's start strength is from Livermore, Numbers and Losses, p. 84. This is the strength of A.P. Hill's and Longstreet's troops. The defender's reinforcements are from Slocum's division (Henderson, p. 359).

Glendale-Frayer's Farm, #186

The defender's total engaged strength is from Livermore, Numbers and Losses, p. 84. The attacker's and defender's casualties are calculated for this engagement by adding the casualties incurred on 29 and 30 June, as presented in Boatner, Civil War, pp. 722, 915-916. The attacker's initial strength represents that of Magruder's troops, as presented in Freeman, I:549. The defender's initial strength is that of Sumner's corps and W.F. Smith's division as shown in War of the Rebellion, Vol. XI, Part III, p. 238, and estimated at 93% effectives, i.e., $0.93 \times 26,489$ (Livermore's formula in Numbers and Losses).

Malvern Hill, #187

Strength data for both sides is calculated by subtracting the losses of 29-30 June from the strengths given for 29-31 July in Livermore, Numbers and Losses, p. 85. Casualty data for both sides is from Boatner, Civil War, p. 507.

Second Bull Run (Second Manassas), #189

The attacker's initial strength is that of Sigel's troops, not including Reynold's division, and Heintzelman's troops, a total of 35,083 men according to Livermore, Numbers and Losses, p. 88.

Jackson's command of 20,000 men is taken as the defender's initial strength. See Boatner, Civil War, p. 104.

Antietam (Sharpsburg), #191

The defender's reinforcements represent A.P. Hill's division, 3,000 men according to Henderson, p. 538.

Corinth, #192

Strength and casualties and NAMA and NAMD for both sides are reversed in the original report. The attacker's strength and casualties should be 22,000 and 4,233, and the defender's figures are 21,147 and 2,520. The Confederates attacked, and Union forces were defending. *C/S = Van Dorn = A, US = Rosecrans = D*

Chancellorsville, #196

The attacker's total strength is from Dupuy and Dupuy, Encyclopedia, pp. 884-885. The attacker's reinforcements represent Averell's cavalry division (Bigelow, p. 473). Boatner, Civil War, p. 140, is the source for the defender's strength.

Brandy Station, #198

The attacker's reinforcements, representing two infantry brigades, are from Livermore, Story, III, Book II:348.

Gettysburg, #199

The attacker's and defender's initial strengths are from Livermore, Story, III, Book II:429.

The Wilderness, #202

The initial strengths of the attacker and defender are from Esposito, Atlas to Accompany Steele, map 122b.

Spotsylvania, #203

The opening action of this engagement involved Warren's V Corps and one cavalry division for the attacker and Anderson's I Corps and two cavalry divisions for the defender. The strength of Warren's troops (16,250 men) is from Livermore, Numbers and Losses, p. 112. The attacker's cavalry is estimated at slightly less than one-third of 12,424, the US cavalry corps strength (B&L, IV:153). The strength of Anderson's corps is from B&L, IV:153 (10,000 men). The defender's cavalry is estimated to be one-

half of the total Confederate cavalry strength of 8,000 (ibid., p. 153).

New Market, #204

The attacker's strength is from Boatner, Civil War, p. 588.

Cold Harbor, #205

The defender's casualties are from Boatner, Civil War, p. 163.

Petersburg, #209

Initial strengths of the attacker and defender are from Boatner, Civil War, p. 644.

Globe Tavern, #210

The attacker's initial strength represents that of Warren's V Corps (11,832 men according to Livermore, Numbers and Losses, p. 119).

Bentonville, #215

The defender's initial strength represents that of the XIV and XX corps (17,990 men according to Livermore, Numbers and Losses, p. 134).

Dinwiddie Court House & White Oak Road, #216

The attacker's initial strength is from Boatner, Civil War, p. 282. The defender's initial strength is estimated at approximately one-half of Johnson's division of 6,813 (Livermore, Numbers and Losses, p. 188). These troops moved to meet the Union advance on 29 March. The defender's casualties are estimated. They lost 800 men at White Oak Road according to Freeman, III:665. Freeman also reports that Johnson's division of four brigades lost a total of 1,050 men. Two of Johnson's brigades were at White Oak Road and two at Dinwiddie Court House. Estimated losses at Dinwiddie Court House are 500 for Johnson plus an additional 500 for other units. Therefore the total defender losses are estimated to be 1,800; 800 at White Oak Road and 1,000 at Dinwiddie Court House.

Five Forks, #217

The defender's casualties are from Knox, p. 297.

Sayler's Creek, #219

The defender's strength is estimated to be 21,000 men. Boatner, Civil War, p. 724, reports that the total Confederate casualties in the engagement probably represented one-third of the force that left Amelia and Jetersville. Therefore the total Confederate strength is estimated to be 21,000.

Spichern, #222

The attacker's and defender's initial strengths are from Rousset, I:119.

Mars la Tour, #223

The attacker's initial strength is from Rousset, I:151.

Kumanovo, #248

The attacker's start strength is estimated to be three-fifths of the attacker's total strength. Three Serbian divisions were present for the battle on the first day, and elements of two more plus one entire division arrived on the second day. See Barby, pp. 57-58, 84. The defender's casualties are from Boucabelle, p. 106. Note, however, that the defenders lost many more men in their retreat from the battlefield.

Lule' Burgas, #249

The attacker's initial strength is from Ford, pp. 56-58.

Prelip, #250

The attacker's total strength is estimated to be 50,000 for three divisions. Half of this force (one of two columns) is estimated to be the attacker's initial strength. See Boucabelle, pp. 112-113. The defender's strength is estimated to be 20,000 men (ibid., pp. 112-114). The defender's casualties are from Boucabelle, p. 115.

Monastir, #251

The defender's strength is from Barby, p. 123. Note that this engagement's correct dates and duration should be 16-18 Nov 1912 and 3 days respectively.

The Nieman, #254

The attacker's casualties are estimated. Sikorski, p. 315, reports total Polish casualties for September 1920 as 29,397. Since the Battle of the Nieman was the major conflict during that month, Polish casualties are estimated to be 20,000.

Suomussalmi, #261

The attacker's reinforcements are estimated at 5,000 men (five new battalions) as described in Elting, p. 28. The defender's reinforcements of 18,000 men represent one division (ibid., p. 28).

La Cateau, #267

The attacker's casualties, "estimated on the best returns available," are from Great Britain, Le Cateau, p. 31.

The Heights of Nancy, #269

The correct strength for the defender is 276,000. The original number is a typographical error.

Eastern Champagne, #289

The attacker's and defender's initial strengths and the attacker's casualties are presented in France, Ministere de la guerre, Les armees francaises, II:425, 481. Germany, Der Weltkrieg, VII: 53, gives 46,100 as the total casualties suffered by the defenders from December 1914 to March 1915 in Champagne. French casualties from mid-February to mid-March 1915 were approximately half of the French total for the same time period (December 1914 to March 1915). Therefore, German casualties between mid-February and mid-March 1915 are estimated to be one-half, or 23,050, of 46,100.

Neuve Chapelle, #290

The defender's reinforcements are from Edmonds and Wynne, p. 88.

Ypres II, #291

Total defender strength committed in the Ypres battle is from King, p. 150. This is the strength of the German Fourth Army, but it comports with an estimated German strength for 10 divisions and 5 brigades at an average strength of 13,615 men per division. Edmonds and Wynne, pp. 377-378, give the order of battle of the German forces at Ypres. The average divisional

strength is calculated from the 20 April 1915 strengths of two German divisions which participated in the offensive, presented in Schwarte, p. 266. Total defender strength committed in the Ypres battle is calculated from the British order of battle in Edmonds and Wynne, pp. 370-374.. The British committed 8 infantry divisions (estimated at 18,179 men per division, Becke, p. 126) and 3 cavalry divisions. Two French divisions also participated in the first days of the battle.

Festubert, #292

The defender's strength is estimated for two divisions at the beginning of the battle and the limited number of reserves sent to the front as described in Edmonds, 1915, pp. 49, 80-82. Edmonds, 1915, p. 76, gives German casualties.

First Dardanelles Landing, #300

Strength data originally given for both sides has been changed. The attacker's strength was 32,000 men total ashore on 25 April 1915, 29,000 British and ANZACs, according to Moorehead, p. 159, and 3,000 French, according to King, p. 181. Turkish strength was 5,000 against the ANZACs according to Aspinall-Oglander, I:255. According to Moorehead, p. 149, 2,000 Turks are estimated to have opposed the British landing. Three thousand Turks are estimated to have opposed the French. The ANZACs incurred 2,000 casualties, according to Aspinall-Oglander, I:198, and the British lost 3,000 according to Churchill, The World Crisis, II:333. French casualties are estimated to have been approximately one-half of the 778 casualties they incurred on 25-26 April. Total estimated attacker casualties are 5,400. Moorehead, p. 149, writes that the Turks lost 1,000 against the British. Aspinall-Oglander, I:199, writes that 2,000 Turks were lost against the ANZACs. Approximately one-half of the 1,730 Turkish casualties incurred fighting the French on 25-26 April are estimated to have occurred on 25 April. Total defender casualties are therefore estimated to be 3,900.

Suvla Bay, #301

Turkish casualties are estimated from data presented in Aspinall-Oglander, II:283, 302. One Turkish unit of the force initially opposed to the British landing at Suvla Bay suffered 30% casualties according to Major Willmer, the commander of the force. The Turkish 12th Division incurred 143 casualties on 10 August. Total Turkish casualties are thus estimated by adding one-third of the original Turkish force (600 of 1,800 men) and 150 for the 12th Division on 10 August.

Chemin des Dames, #334

The attacker's start strength is 250,000 men. The defender's start strength is 75,000 men. The defender's casualties are 128,000. All data is estimated.

Exermont-Montrefagne, #374

The correct defender's strength and casualties are 3,245 and 192 respectively. The original numbers were typographical errors.

Megiddo, #385

The attacker's casualties are from MacMunn and Falls, Part II, p. 509. The defender's casualties are estimated to be 7,000 minimum (ibid., p. 488).

Chouigui Pass, #391

Attacker and defender casualties have been estimated to be three men for each destroyed or damaged tank. US forces had no supporting arms, and German forces had only a small group of infantry and engineers in this engagement. No data for German casualties was found in any source. The account of Lieutenant Freeland A. Daubin, Jr., a US tank commander who participated in the action, is quoted in most of the sources consulted for this engagement. Daubin's tank was destroyed and all four crew members were casualties. He notes that a US tank company commander was killed.

Vietri I, #398

The defender's reinforcements are from British 46th Division.

Vietri II, #402

The defender's reinforcements are from ibid.

Mortain, #461

The defender's start strength is 13,690 representing the strength of the US 30th Infantry Division. See HERO, Historical Survey, p. 13. The defender's reinforcements represent the estimated strength of Combat Command B, 3d Armored Division, the 12th Infantry Regiment, and miscellaneous combat units. Shulman, p. 148, writes that the German 2d Panzer Division commander told him in an interview in 1946 that his division was back at its original line of departure by 9 August having incurred 800 casualties. The 2d Panzer Division's total casualties are estimated to

be 1,600 for the entire Mortain battle. The two other German divisions participating are assumed to have sustained a similar number of casualties, giving a total of 4,800 casualties for the Germans. Blumenson, The Duel for France, p. 247, writes that German casualties were higher than those sustained by US forces, but does not give a figure for the Germans.

Westwall, #468

Strengths for both sides were calculated by adding the daily strengths and dividing by six, the duration in days of the engagement. All data is from HERO, Field Fortifications, p. 41. The data is based on operational records and some estimation.

Schmidt, #469

The attacker's reinforcements are from Clark, p. 40. The attacker's strength is calculated by adding the attacker's daily strengths and dividing by twelve, the duration in days of the engagement. See HERO, Historical Survey, p. 36. MacDonald, Siegfried Line, p. 374, estimates the number of German casualties in the main phase of the battle to be 3,000.

Sarre-St. Avold, #475

The correct casualties for the defender are 3,279. The original number is a typographical error.

St. Vith, #484

All data is presented in The Seventh Armored Division, p. 103. US casualties are given only for the 7th Armored Division and attached units (1,037). Casualties for supporting US troops are estimated by using the same proportion of 7th Armored Division casualties to the armored division's strength and multiplying that ratio by the supporting troop's strength.

Bastogne, #485

Two pieces of data for attacker and defender casualties were found in the sources consulted for this battle. Cole, The Ardennes, p. 303, writes that 175 officers and men of Task Force Cherry, one-quarter of its strength, were the casualties incurred by this force on 19 December. One-quarter of the strengths of the other two heavily engaged US forces and the 212 casualties incurred by the 506th Airborne Infantry Regiment on 19 December (ibid., p. 455) were added to give an estimated total of 1,151 US casualties. German casualties at the Noville action were estimated by Task Force Desobry personnel to be the equivalent of a battalion of German infantry, according to Phillips, p.

125. An additional 2,000 casualties at Lullange/Allerborn and Longwilly are estimated to have been incurred, giving a total of 3,000 German casualties. The strength of an airborne infantry regiment was added to the defender's strength, as one unit of this type was engaged in combat.

Soviet Counteroffensive at Moscow, #490

The correct casualties for the defender are 85,300. The original number is a typographical error.

The Pogoreloye Gorodishche Offensive, #491

All data is presented in HERO, Historial Scenarios, p. 73.

Seelow Heights, #515

Strengths for both sides were calculated by adding the daily strengths and dividing by two, the duration in days of the engagement. All data is from HERO, Field Fortifications, p. 47.

Tarawa-Betio, #517

The attacker's initial strength was 5,000 men, part of the 2d Marine Division.

Kerama, #568

The attacker's casualties are from Col. Israel Gefen, an Israeli Defense Forces veteran and HERO consultant. He based this data on an article in Maarachot, No. 292, and on interviews with Israeli participants.

Task 3: Clarification of the Basis for Assigning Victory

The purpose of ²this task is to identify the basis used to determine victory or success in an engagement. As described on pages 12 and 13 of Volume II of the original data base, two criteria were employed to determine victory in an engagement.

1) Decisive (or "Clear-cut") Resolution of Combat is a qualitative assessment of the outcome of combat in favor of one side or the other. (The term "clear-cut," i.e., obvious, is preferable to "decisive" since the latter term has extra-battle-field or strategic connotations). The resolution of combat recorded in Table 7 of the data base is a schematic representation of what happened to both sides as a result of the engagement. It does not necessarily represent whether or not the resolution of combat was decisive, nor was it intended to do so. If the basis for determining victory in an engagement is clear-cut resolution of combat, "RESO" is entered under the column heading CRITERION in the Task 3 tables.

and, 2) Mission Accomplishment is the criterion used to determine victory, when there was judged to be no clear-cut resolution of combat, but one of the sides is judged to be more successful than the other in accomplishing its mission. Mission accomplishment is shown as a numerical score on a scale of 1 to 10, representing the success each side achieved in fulfillment of its mission. An explanation of the derivation of the mission accomplishment scores is given on pages 14-15 of Volume II of the original data base. If the basis for determining victory in an engagement is mission accomplishment, "ACH" is entered under the column heading CRITERION in the Task 3 tables.

Explanations of the column headings for the Task 3 tables are as follow.

WINA is the heading under which the victor or side which achieved success is designated. The entry "1" indicates that the attacker was victorious or successful, the entry "-1" indicates that the defender was victorious or successful, and the entry "0" indicates that the engagement was a drawn battle. A drawn battle is scored only when (i) there is judged to be no clear-cut resolution of combat and (ii) neither side is judged to have been more or less successful than the other side in accomplishing its mission. The review of the basis for assignment of victory performed for this study disclosed some typographical errors in the original data base and has led to some revisions in analytical assessments affecting success. This has resulted in changes in assigned victory or success for a number of engagements. A review of the 95 engagements recorded for General Problem Report 2 has also resulted in changes in several engagements. All changes in WINA and ACHA and ACHD in Table 5 of the original data base which are presented on the following tables are marked by an asterisk. Users of the data base should regard the entries shown in the Task 3 tables as the correct ones. Where appropriate, changes should be made under "Success" in Table 3 of the first 247 engagements of the data base, as well as under "Victor" and "Success" for all engagements in Tables 5 and 7.

ACHA and ACHD are the mission accomplishment scores of the attacker and defender. The review of the basis for assignment of victory has disclosed some typographical errors in the

original data base and led to some revisions in mission accomplishment scores. Users of the data base should regard the mission accomplishment scores given in the Task 3 tables as the correct ones. Where appropriate, changes should be made in Table 5 of the original data base.

CRITERION is the heading under which the basis for determining victory or success is shown, as described above.

BASIS FOR ASSIGNING VICTORY

Nieuport, #1

WINA	ACHA	ACHD	CRITERION
-1	3	8	RESO

White Mountain, #2

1	8	2	RESO
---	---	---	------

Wimpfen, #3

1	7	3	RESO
---	---	---	------

Dessau Bridge, #4*

-1	3	9	RESO
----	---	---	------

Lutter, #5

1	7	3	RESO
---	---	---	------

Breitenfeld I, #6

-1	4	9	RESO
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BASIS FOR ASSIGNING VICTORY

The Lech, #7 *

WINA	ACHA	ACHD	CRITERION
1	9	3	RESO

Alte Veste, #8 *

-1	4	8	RESO
----	---	---	------

Luetzen, #9

1	9	5	RESO
---	---	---	------

Noerdlingen I, #10

-1	3	9	RESO
----	---	---	------

Wittstock, #11 *

1	9	3	RESO
---	---	---	------

Breitenfeld II, #12 *

1	9	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Rocroi, #13*

WINA	ACHA	ACHD	CRITERION
1	8	3	RESO

Tuttlingen, #14*

1	9	2	RESO
---	---	---	------

Freiburg, #15*

1	7	6	RESO
---	---	---	------

Jankau, #16*

-1	4	6	RESO
----	---	---	------

Mergentheim, #17*

1	9	3	RESO
---	---	---	------

Allerheim (Noerdlingen II), #18*

1	7	6	ACH
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BASIS FOR ASSIGNING VICTORY

Lens, #19*

WINA	ACHA	ACHD	CRITERION
1	9	3	RESO

Edgehill, #20

1	7	4	RESO
---	---	---	------

Marston Moor, #21*

1	8	4	RESO
---	---	---	------

Tippermuir, #22

-1	3	9	RESO
----	---	---	------

Kilsyth, #23*

1	9	2	RESO
---	---	---	------

Newbury II, #24*

-1	5	7	ACH
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BASIS FOR ASSIGNING VICTORY

Naseby, #25*

WINA	ACHA	ACHD	CRITERION
-1	4	9	RESO

Preston, #26*

1	9	3	RESO
---	---	---	------

Dunbar, #27

1	9	4	RESO
---	---	---	------

Worcester, #28*

1	9	4	RESO
---	---	---	------

St. Antoine, #29

1	8	5	RESO
---	---	---	------

The Dunes, #30

1	8	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

The Raab, #31*

WINA	ACHA	ACHD	CRITERION
-1	4	9	RESO

Vienna, #32

1	9	3	RESO
---	---	---	------

Chocim II, #33

1	8	3	RESO
---	---	---	------

Sinsheim, #34

1	9	4	RESO
---	---	---	------

Senef, #35

1	8	5	ACH
---	---	---	-----

Enzheim, #36*

0	6	6	ACH
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BASIS FOR ASSIGNING VICTORY

Turckheim, #37

WINA	ACHA	ACHD	CRITERION
1	9	4	RESO

Fehrbellin, #38*

1	9	4	RESO
---	---	---	------

Sedgemoor, #39*

-1	2	7	RESO
----	---	---	------

Killiecrankie, #40*

1	8	2	RESO
---	---	---	------

Walcourt, #41*

-1	4	7	RESO
----	---	---	------

Fleurus, #42*

1	9	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

The Boyne, #43*

WINA	ACHA	ACHD	CRITERION
1	9	5	RESO

Aughrim, #44

1	9	4	RESO
---	---	---	------

Steenkerke, #45*

-1	3	7	RESO
----	---	---	------

Neerwinden (Landen), #46*

1	8	3	RESO
---	---	---	------

Marsaglia, #47*

1	9	2	RESO
---	---	---	------

Zenta, #48*

1	9	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Poltava, #49*

WINA	ACHA	ACHD	CRITERION
-1	4	8	RESO

Blenheim, #50*

1	9	3	RESO
---	---	---	------

Ramillies, #51*

1	9	3	RESO
---	---	---	------

Oudenarde, #52*

1	9	3	RESO
---	---	---	------

Malplaquet, #53

1	8	7	RESO
---	---	---	------

Peterwardein, #54*

1	9	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Mollwitz, #55*

WINA	ACHA	ACHD	CRITERION
-1	4	7	RESO

Chotusitz, #56

-1	5	8	RESO
----	---	---	------

Dettingen, #57*

1	6	3	RESO
---	---	---	------

Fontenoy, #58

-1	4	8	RESO
----	---	---	------

Hohenfriedberg, #59*

1	9	3	RESO
---	---	---	------

Sohr, #60

1	9	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Kesslesdorf, #61

WINA	ACHA	ACHD	CRITERION
1	9	3	RESO

Prestonpans, #62

1	9	3	RESO
---	---	---	------

Culloden, #63

-1	3	9	RESO
----	---	---	------

Lobositz, #64

1	8	7	RESO
---	---	---	------

Prague, #65*

1	9	4	RESO
---	---	---	------

Plassey, #66

-1	2	9	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Kolin, #67*

WINA	ACHA	ACHD	CRITERION
-1	5	8	RESO

Hastenbeck, #68*

1	5	3	ACH
---	---	---	-----

Roszbach, #69*

-1	3	9	RESO
----	---	---	------

Leuthen, #70

1	10	3	RESO
---	----	---	------

Crefeld, #71*

1	8	5	RESO
---	---	---	------

Zorndorf, #72

1	7	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Hochkirch, #73*

WINA	ACHA	ACHD	CRITERION
1	9	4	RESO

Bergen, #74*

-1	3	6	ACH
----	---	---	-----

Minden, #75

1	9	2	RESO
---	---	---	------

Kunersdorf, #76

-1	3	9	RESO
----	---	---	------

Plains of Abraham (Quebec), #77*

-1	3	9	RESO
----	---	---	------

Maxen, #78*

1	8	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Warburg, #79

WINA	ACHA	ACHD	CRITERION
1	9	2	RESO

Liegnitz, #80 *

-1	2	8	RESO
----	---	---	------

Torgau, #81

1	8	4	RESO
---	---	---	------

Bunker Hill, #82 *

1	7	5	RESO
---	---	---	------

Quebec, #83 *

-1	4	7	RESO
----	---	---	------

White Plains, #84

1	7	5	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Trenton, #85

WINA	ACHA	ACHD	CRITERION
1	9	2	RESO

Princeton, #86

1	8	2	RESO
---	---	---	------

Freeman's Farm, #87 *

0	5	5	ACH
---	---	---	-----

Germantown, #88

-1	4	7	RESO
----	---	---	------

Bemis Heights, #89

-1	4	9	RESO
----	---	---	------

Monmouth Court House, #90 *

0	6	6	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Camden, #91

WINA	ACHA	ACHD	CRITERION
1	7	3	RESO

Cowpens, #92*

-1	2	9	RESO
----	---	---	------

Guilford Court House, #93*

1	6	5	ACH
---	---	---	-----

Hobkirk's Hill, #94

1	9	3	RESO
---	---	---	------

Eutaw Springs, #95*

-1	4	5	RESO
----	---	---	------

Valmy, #96*

-1	3	4	ACH
----	---	---	-----

BASIS FOR ASSIGNING VICTORY

Jemappes, #97

WINA	ACHA	ACHD	CRITERION
1	6	4	RESO

Neerwinden, #98

-1	4	6	RESO
----	---	---	------

Hondschoote, #99

1	6	4	RESO
---	---	---	------

Wattignies, #100

1	5	4	RESO
---	---	---	------

Fleurus, #101

-1	6	7	ACH
----	---	---	-----

Lodi, #102*

1	8	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Castiglione, #103

WINA	ACHA	ACHD	CRITERION
1	8	3	RESO

Neresheim, #104 *

1	5	4	ACH
---	---	---	-----

Wuerzburg, #105

1	7	4	RESO
---	---	---	------

Arcola, #106

1	8	3	RESO
---	---	---	------

Rivoli, #107

-1	3	9	RESO
----	---	---	------

Pyramids, #108 *

1	9	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Stockach I, #109

WINA	ACHA	ACHD	CRITERION
-1	5	6	RESO

Mount Tabor, #110

-1	1	8	RESO
----	---	---	------

Zurich I, #111

-1	4	6	ACH
----	---	---	-----

Novi, #112 *

1	7	3	RESO
---	---	---	------

Zurich III, #113

1	8	2	RESO
---	---	---	------

Moeskirch, #114

1	5	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Marengo, #115

WINA	ACHA	ACHD	CRITERION
-1	2	7	RESO

Hohenlinden, #116

-1	3	7	RESO
----	---	---	------

Austerlitz, #117

-1	2	10	RESO
----	---	----	------

Jena, #118

1	9	2	RESO
---	---	---	------

Auerstadt, #119

-1	2	10	RESO
----	---	----	------

Eylau, #120 *

0	6	6	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Friedland, #121

WINA	ACHA	ACHD	CRITERION
1	9	3	RESO

Vimeiro, #122

-1	4	8	RESO
----	---	---	------

Corunna, #123

-1	4	7	RESO
----	---	---	------

Eckmuehl, #124

-1	4	8	RESO
----	---	---	------

Aspern-Essling, #125*

1	7	5	RESO
---	---	---	------

The Raab, #126

1	8	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Wagram, #127

WINA	ACHA	ACHD	CRITERION
1	7	4	RESO

Talavera, #128 *

-1	5	6	ACH
----	---	---	-----

Bussaco, #129

-1	4	6	ACH
----	---	---	-----

Fuentes de Onoro, #130 *

-1	5	6	ACH
----	---	---	-----

Albuera, #131

-1	6	7	ACH
----	---	---	-----

Salamanca, #132

1	7	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Vittoria, #133

WINA	ACHA	ACHD	CRITERION
1	8	3	RESO

Borodino, #134

1	7	6	RESO
---	---	---	------

Luetzen, #135 *

-1	4	6	RESO
----	---	---	------

Bautzen, #136

1	6	4	RESO
---	---	---	------

Dresden, #137

-1	3	6	RESO
----	---	---	------

Leipzig, #138

1	7	5	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Hanau, #139

WINA	ACHA	ACHD	CRITERION
1	7	3	RESO

La Rothiere, #140

1	8	7	RESO
---	---	---	------

Laon, #141

-1	4	7	RESO
----	---	---	------

Arcis-sur-Aube, #142

1	7	4	ACH
---	---	---	-----

Ligny, #143

1	7	4	RESO
---	---	---	------

Quatre Bras, #144*

-1	6	7	ACH
----	---	---	-----

BASIS FOR ASSIGNING VICTORY

Waterloo, #145

WINA	ACHA	ACHD	CRITERION
-1	3	8	RESO

The Thames, #146

1	7	1	RESO
---	---	---	------

Chippewa, #147

-1	2	6	RESO
----	---	---	------

Lundy's Lane, #148

-1	3	4	ACH
----	---	---	-----

New Orleans, #149

-1	3	8	RESO
----	---	---	------

Boyaca, #150*

1	9	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Carabobo, #151*

WINA	ACHA	ACHD	CRITERION
1	9	4	RESO

Bombona, #152*

1	7	6	ACH
---	---	---	-----

Pichincha, #153*

-1	3	8	RESO
----	---	---	------

Junin, #154*

1	9	3	RESO
---	---	---	------

Ayacucho, #155*

-1	2	9	RESO
----	---	---	------

San Jacinto, #156*

1	9	1	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Palo Alto, #157

WINA	ACHA	ACHD	CRITERION
1	6	2	RESO

Resaca de la Palma, #158

1	7	1	RESO
---	---	---	------

Buena Vista, #159

-1	2	6	RESO
----	---	---	------

Cerro Gordo, #160

1	8	1	RESO
---	---	---	------

Contreras, #161

1	9	1	RESO
---	---	---	------

Churubusco, #162

1	7	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Molino del Rey, #163

WINA	ACHA	ACHD	CRITERION
1	7	2	RESO

Chapultepec, #164

1	9	2	RESO
---	---	---	------

The Alma, #165

1	6	3	RESO
---	---	---	------

Inkerman, #166 *

-1	3	5	RESO
----	---	---	------

Magenta, #167

1	5	3	RESO
---	---	---	------

Solferino, #168

1	5	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Sadowa (Koeniggraetz), #169

WINA	ACHA	ACHD	CRITERION
1	7	5	RESO

Custozza II, #170

-1	3	6	RESO
----	---	---	------

First Bull Run (First Manassas), #171*

-1	4	6	RESO
----	---	---	------

Wilson's Creek, #172

-1	5	6	RESO
----	---	---	------

Belmont, #173

1	6	5	ACH
---	---	---	-----

Mill Springs, #174

-1	-4	8	RESO
----	----	---	------

BASIS FOR ASSIGNING VICTORY

Fort Donelson, #175 *

WINA	ACHA	ACHD	CRITERION
-1	4	7	RESO

Pea Ridge, #176 *

-1	5	7	RESO
----	---	---	------

Kernstown, #177 *

-1	4	7	RESO
----	---	---	------

Shiloh, #178

-1	4	6	ACH
----	---	---	-----

Front Royal, #179

1	9	3	RESO
---	---	---	------

First Winchester, #180

1	8	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Cross Keys, #181

WINA	ACHA	ACHD	CRITERION
-1	3	9	RESO

Port Republic, #182

1	8	5	RESO
---	---	---	------

Seven Pines (Fair Oaks), #183*

-1	4	5	ACH
----	---	---	-----

Mechanicsville, #184*

-1	5	7	ACH
----	---	---	-----

Gaines's Mill, #185*

-1	5	6	ACH
----	---	---	-----

Glendale-Frayser's Farm, #186

-1	5	6	ACH
----	---	---	-----

BASIS FOR ASSIGNING VICTORY

Malvern Hill, #187

WINA	ACHA	ACHD	CRITERION
-1	4	6	RESO

Cedar Mountain, #188

-1	5	6	RESO
----	---	---	------

Second Bull Run (Second Manassas), #189

-1	3	9	RESO
----	---	---	------

South Mountain, #190

1	6	5	RESO
---	---	---	------

Antietam (Sharpsburg), #191*

-1	5	7	ACH
----	---	---	-----

Corinth, #192*

-1	5	7	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Perryville, #193

WINA	ACHA	ACHD	CRITERION
0	5	5	ACH

Fredericksburg, #194

-1	3	9	RESO
----	---	---	------

Murfreesboro (Stones River), #195*

0	5	5	ACH
---	---	---	-----

Chancellorsville, #196

-1	3	10	RESO
----	---	----	------

Champion's Hill, #197

1	8	4	RESO
---	---	---	------

Brandy Station, #198

1	6	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Gettysburg, #199

WINA	ACHA	ACHD	CRITERION
-1	4	6	RESO

Chickamauga, #200

1	6	4	RESO
---	---	---	------

Chattanooga, #201

1	8	4	RESO
---	---	---	------

The Wilderness, #202

-1	4	5	ACH
----	---	---	-----

Spotsylvania, #203*

-1	5	6	ACH
----	---	---	-----

New Market, #204

1	5	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Cold Harbor, #205*

WINA	ACHA	ACHD	CRITERION
-1	5	7	RESO

Kenesaw Mountain, #206

-1	4	7	RESO
----	---	---	------

Peachtree Creek, #207

-1	3	7	RESO
----	---	---	------

Atlanta, #208

-1	3	6	RESO
----	---	---	------

Petersburg, #209

-1	4	7	RESO
----	---	---	------

Globe Tavern, #210

1	5	4	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Opequon Creek (Third Winchester), #211

WINA	ACHA	ACHD	CRITERION
1	6	4	RESO

Cedar Creek, #212

-1	3	7	RESO
----	---	---	------

Franklin, #213

-1	3	7	RESO
----	---	---	------

Nashville, #214

1	8	2	RESO
---	---	---	------

Bentonville, #215

-1	4	7	RESO
----	---	---	------

Dinwiddie Court House & White Oak Road, #216

0	5	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Five Forks, #217

WINA	ACHA	ACHD	CRITERION
1	8	3	RESO

Selma, #218

1	8	2	RESO
---	---	---	------

Sayler's Creek, #219

1	8	2	RESO
---	---	---	------

Weissenburg, #220

1	7	4	RESO
---	---	---	------

Froeschwiller (Woerth), #221

1	7	5	RESO
---	---	---	------

Spichern, #222 *

1	7	6	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Mars la Tour, #223

WINA	ACHA	ACHD	CRITERION
1	8	4	RESO

Gravelotte-St. Privat, #224

1	8	3	RESO
---	---	---	------

Sedan, #225

1	9	3	RESO
---	---	---	------

Coulmiers, #226

1	6	4	RESO
---	---	---	------

Orleans, #227

1	7	3	RESO
---	---	---	------

Le Mans, #228

1	7	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Belfort, #229

WINA	ACHA	ACHD	CRITERION
-1	3	8	RESO

Isandhlwana, #230

1	9	3	RESO
---	---	---	------

Ulundi, #231

-1	3	8	RESO
----	---	---	------

Majuba Hill, #232

1	9	3	RESO
---	---	---	------

Tel el-Kebir, #233

1	9	3	RESO
---	---	---	------

Omdurman, #234

-1	4	9	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Adowa, #235

WINA	ACHA	ACHD	CRITERION
1	9	2	RESO

Modder River, #236

1	5	4	RESO
---	---	---	------

Magersfontein, #237

-1	3	8	RESO
----	---	---	------

Colenso, #238

-1	2	8	RESO
----	---	---	------

Spion Kop, #239

-1	2	7	RESO
----	---	---	------

Paardeberg, #240*

0	5	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

San Juan and El Caney, #241

WINA	ACHA	ACHD	CRITERION
1	6	4	RESO

The Yalu, #242

1	8	2	RESO
---	---	---	------

Telissu, #243

1	9	2	RESO
---	---	---	------

Liaoyang, #244

1	9	4	RESO
---	---	---	------

The Sha-Ho, #245

-1	4	5	RESO
----	---	---	------

Sandepu, #246 *

-1	5	6	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Mukden, #247*

WINA	ACHA	ACHD	CRITERION
1	7	4	RESO

Kumanovo, #248

1	8	5	RESO
---	---	---	------

Lule' Burgas, #249

1	6	3	RESO
---	---	---	------

Prelip, #250

1	7	5	RESO
---	---	---	------

Monastir, #251*

1	7	2	RESO
---	---	---	------

Adrianople, #252

1	8	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Warsaw, #253

WINA	ACHA	ACHD	CRITERION
1	9	3	RESO

The Nieman, #254

1	9	4	RESO
---	---	---	------

Guadalajara-Brihuega, #255

-1	4	7	RESO
----	---	---	------

Changkufeng-Shachaofeng, #256*

1	7	4	RESO
---	---	---	------

Hill 52-Shachaofeng, #257

-1	4	6	ACH
----	---	---	-----

Changkufeng/Hill 52, #258

-1	5	5	ACH
----	---	---	-----

BASIS FOR ASSIGNING VICTORY

Nomonhan: Opening Engagement, #259

WINA	ACHA	ACHD	CRITERION
0	5	5	ACH

Nomonhan: Soviet Counteroffensive, #260

1	7	4	RESO
---	---	---	------

Suomussalmi, #261

1	9	1	RESO
---	---	---	------

Alsace-Lorraine I, #262

-1	4	6	ACH
----	---	---	-----

Alsace-Lorraine II, #263

1	8	3	RESO
---	---	---	------

The Ardennes, #264*

-1	3	6	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

The Sambre, #265

WINA	ACHA	ACHD	CRITERION
1	6	4	RESO

Mons, #266*

1	6	5	RESO
---	---	---	------

Le Cateau, #267

1	6	4	RESO
---	---	---	------

Guise, #268*

0	5	5	ACH
---	---	---	-----

The Heights of Nancy, #269

-1	4	7	RESO
----	---	---	------

The Ourcq I, #270*

0	6	6	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

The Ourcq II, #271*

WINA	ACHA	ACHD	CRITERION
0	6	6	ACH

The Petit Morin, #272

1	6	3	RESO
---	---	---	------

The Two Morins, #273*

1	5	4	RESO
---	---	---	------

The Marshes of St. Gond, #274

-1	5	7	RESO
----	---	---	------

Vitry le Francois, #275

-1	5	6	RESO
----	---	---	------

The Gap of Revigny, #276

-1	5	7	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

The Aisne, #277

WINA	ACHA	ACHD	CRITERION
-1	5	7	ACH

Stalluponen, #278

-1	3	6	RESO
----	---	---	------

Gumbinnen, #279

0	5	5	ACH
---	---	---	-----

Tannenberg, #280

1	8	1	RESO
---	---	---	------

Masurian Lakes, #281

1	8	2	RESO
---	---	---	------

Krasnik, #282

1	8	6	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Komarov, #283

WINA	ACHA	ACHD	CRITERION
1	8	3	RESO

The Gnila Lipa, #284

-1	2	8	RESO
----	---	---	------

Rava Russka, #285

-1	3	8	RESO
----	---	---	------

Lodz, #286*

1	8	5	ACH
---	---	---	-----

The Jadar, #287

-1	3	9	RESO
----	---	---	------

The Kolubra, #288*

1	9	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Eastern Champagne, #289

WINA	ACHA	ACHD	CRITERION
-1	4	6	ACH

Neuve Chapelle, #290

-1	5	6	ACH
----	---	---	-----

Ypres II, #291

-1	5	6	ACH
----	---	---	-----

Festubert, #292

-1	4	6	ACH
----	---	---	-----

Loos, #293

-1	5	6	ACH
----	---	---	-----

The Winter Battle (Masuria), #294

1	8	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Gorlice-Tarnow (Opening Phase Only), #295

WINA	ACHA	ACHD	CRITERION
1	8	3	RESO

First Isonzo, #296

-1	3	6	RESO
----	---	---	------

Second Isonzo, #297

-1	3	6	RESO
----	---	---	------

Third Isonzo, #298

-1	4	6	RESO
----	---	---	------

Fourth Isonzo, #299

-1	4	6	RESO
----	---	---	------

First Dardanelles Landing, #300

0	5	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Suvla Bay, #301

WINA	ACHA	ACHD	CRITERION
-1	4	5	ACH

Kut-el-Amara, #302

1	7	3	RESO
---	---	---	------

Ctesiphon, #303*

-1	4	6	RESO
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First Somme, #304

-1	4	5	RESO
----	---	---	------

Somme, Fourth Army Attack, #305

-1	3	7	RESO
----	---	---	------

Somme, Ovillers, #306

-1	3	7	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Somme, Bazentin Ridge, #307

WINA	ACHA	ACHD	CRITERION
0	5	5	ACH

Somme, Flers-Courcelette, #308

1	7	5	ACH
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Caucasus Winter Offensive, #309

1	8	3	RESO
---	---	---	------

Lake Narotch, #310

-1	4	6	RESO
----	---	---	------

1916 Brusilov Offensive, #311

1	7	3	RESO
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Fifth Isonzo, #312

-1	4	6	ACH
----	---	---	-----

BASIS FOR ASSIGNING VICTORY

Asiago, #313*

WINA	ACHA	ACHD	CRITERION
1	6	5	RESO

Trentino Counteroffensive, #314

1	6	5	RESO
---	---	---	------

Sixth Isonzo (Gorizia), #315

1	6	4	RESO
---	---	---	------

Arras, #316

0	5	5	ACH
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Aisne II, #317

-1	3	6	RESO
----	---	---	------

Messines, #318

1	7	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Ypres III, #319

WINA	ACHA	ACHD	CRITERION
-1	5	6	ACH

Cambrai I, #320

1	7	5	RESO
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Cambrai II, #321

1	7	3	RESO
---	---	---	------

Tenth Isonzo, #322 *

1	5	4	ACH
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Eleventh Isonzo, #323

1	5	4	ACH
---	---	---	-----

Caporetto (Twelfth Isonzo), #324

1	8	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Crossing of the Tigris, #325

WINA	ACHA	ACHD	CRITERION
1	8	4	RESO

Gaza I, #326

-1	4	8	RESO
----	---	---	------

Gaza II, #327*

-1	3	9	RESO
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Gaza III, #328*

1	9	4	RESO
---	---	---	------

Junction Station, #329

1	8	2	RESO
---	---	---	------

Second Somme, Phase I (Somme-Peronne), #330

1	7	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Second Somme, Phase II (Somme-Montdidier), #331

WINA	ACHA	ACHD	CRITERION
0	5	5	ACH

Lys, #332

1	7	5	RESO
---	---	---	------

Yvonne and Odette Positions, #333*

1	6	4	ACH
---	---	---	-----

Chemin des Dames, #334

-1	3	5	RESO
----	---	---	------

Cantigny, #335

1	7	3	RESO
---	---	---	------

Belleau Wood, #336

0	4	4	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Hill 142, #337

WINA	ACHA	ACHD	CRITERION
1	6	4	RESO

West Wood I, #338

-1	2	7	RESO
----	---	---	------

Bouresches I, #339*

0	6	6	ACH
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Hill 192, #340

-1	3	7	RESO
----	---	---	------

West Wood II, #341

1	6	5	ACH
---	---	---	-----

North Wood I, The Hunting Lodge, #342

1	7	6	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Bouresches II, #343

WINA	ACHA	ACHD	CRITERION
-1	5	7	RESO

North Wood II, #344

-1	2	6	RESO
----	---	---	------

North Wood III, #345

-1	3	6	RESO
----	---	---	------

North Wood IV (Final Assault), #346

1	7	3	RESO
---	---	---	------

Vaux, #347*

1	7	3	RESO
---	---	---	------

La Roche Wood East, #348*

1	7	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

La Roche Wood West, #349*

WINA	ACHA	ACHD	CRITERION
1	7	3	RESO

Noyon-Montdidier, #350

-1	4	6	RESO
----	---	---	------

Champagne-Marne, #351

-1	4	6	RESO
----	---	---	------

Aisne-Marne I, #352*

1	7	4	RESO
---	---	---	------

Missy aux Bois Ravine, #353

1	7	3	RESO
---	---	---	------

Breuil, #354

1	7	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

St. Amand Farm, #355

WINA	ACHA	ACHD	CRITERION
1	8	2	RESO

Beaurepaire Farm, #356

1	8	2	RESO
---	---	---	------

Cravancon Ferme-Chaudun, #357

1	8	2	RESO
---	---	---	------

Chaudun, #358

1	8	2	RESO
---	---	---	------

Aisne-Marne II, #359

1	7	6	ACH
---	---	---	-----

Berzy le Sec, #360

1	8	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Buzancy Ridge, #361

WINA	ACHA	ACHD	CRITERION
1	8	2	RESO

Picardy, 1918, Phase I, #362

1	9	3	RESO
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Picardy, 1918, Phase II, #363

1	9	5	RESO
---	---	---	------

St. Mihiel, #364

1	8	5	RESO
---	---	---	------

Lahayville-Bois de Lamarche, #365

1	8	2	RESO
---	---	---	------

Meuse-Argonne, Phase I, #366

1	7	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Blanc Mont I, #367

WINA	ACHA	ACHD	CRITERION
1	6	5	ACH

Medeah Farm, #368

1	8	2	RESO
---	---	---	------

Essen Hook, #369

1	8	4	RESO
---	---	---	------

Blanc Mont Ridge, #370

1	7	3	RESO
---	---	---	------

Sommepey Wood, #371

1	8	2	RESO
---	---	---	------

Blanc Mont II, #372*

0	6	6	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Meuse-Argonne, Phase II, #373

WINA	ACHA	ACHD	CRITERION
1	7	5	ACH

Exermont-Montrefagne, #374

0	5	5	ACH
---	---	---	-----

Mayache Ravine, #375

0	5	5	ACH
---	---	---	-----

La Neuville le Comte Ferme, #376

1	6	5	ACH
---	---	---	-----

Ferme des Granges-Fleville, #377

1	7	4	RESO
---	---	---	------

Hill 212, #378

1	6	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Bois de Boyon-Montrefagne, #379*

WINA	ACHA	ACHD	CRITERION
1	6	5	ACH

Hill 272, #380

1	7	4	RESO
---	---	---	------

Meuse-Argonne, Phase III, #381

1	6	4	RESO
---	---	---	------

Remilly-Aillicourt, #382

1	8	4	RESO
---	---	---	------

Hill 252-Pont Maugis, #383

1	6	4	RESO
---	---	---	------

The Piave, #384

-1	4	7	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Megiddo, #385

WINA	ACHA	ACHD	CRITERION
1	9	3	RESO

Alam Halfa, #386

-1	5	7	RESO
----	---	---	------

El Alamein II, #387*

1	8	4	RESO
---	---	---	------

Operation "Lightfoot," #388

1	7	6	ACH
---	---	---	-----

Alamein Bridgehead Expansion, #389

1	7	6	ACH
---	---	---	-----

Operation "Supercharge," #390

1	9	5	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Chouigui Pass, #391*

WINA	ACHA	ACHD	CRITERION
-1	3	8	RESO

El Guettar, #392

-1	5	7	RESO
----	---	---	------

Sedjenane-Bizerte, #393

1	7	4	RESO
---	---	---	------

Amphitheater, #394

1	5	4	ACH
---	---	---	-----

Port of Salerno, #395

1	6	4	RESO
---	---	---	------

Sele-Calore Corridor, #396 *

-1	5	6	ACH
----	---	---	-----

BASIS FOR ASSIGNING VICTORY

Battipaglia I, #397

WINA	ACHA	ACHD	CRITERION
-1	3	7	RESO

Vietri I, #398

-1	3	7	RESO
----	---	---	------

Tobacco Factory, #399

-1	4	7	RESO
----	---	---	------

Battipaglia II, #400

1	7	5	RESO
---	---	---	------

Eboli, #401

1	6	5	ACH
---	---	---	-----

Vietri II, #402

-1	4	7	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Grazzanise, #403

WINA	ACHA	ACHD	CRITERION
1	7	4	RESO

Caiazzo, #404

1	6	3	RESO
---	---	---	------

Capua, #405

-1	2	8	RESO
----	---	---	------

Castel Volturno, #406

1	6	5	ACH
---	---	---	-----

Monte Acero, #407

1	6	5	ACH
---	---	---	-----

Triflisco, #408

1	7	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Dragoni, #409 *

WINA	ACHA	ACHD	CRITERION
-1	5	6	ACH

Canal I, #410 *

1	6	5	ACH
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Monte Grande (Vulturno), #411

1	6	5	ACH
---	---	---	-----

Canal II, #412

1	6	5	ACH
---	---	---	-----

Francolise, #413

-1	3	7	RESO
----	---	---	------

Santa Maria Oliveto, #414

1	6	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Monte Camino I, #415

WINA	ACHA	ACHD	CRITERION
-1	3	7	RESO

Monte Lungo, #416

-1	5	6	ACH
----	---	---	-----

Pozzilli, #417

-1	3	8	RESO
----	---	---	------

Monte Camino II, #418

1	7	2	RESO
---	---	---	------

Monte Rotondo, #419

0	5	5	ACH
---	---	---	-----

Calabritto, #420

-1	4	6	ACH
----	---	---	-----

BASIS FOR ASSIGNING VICTORY

Monte Camino III, #421

WINA	ACHA	ACHD	CRITERION
1	7	3	RESO

Monte Maggiore, #422

1	7	3	RESO
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Aprilia I, #423

1	6	3	RESO
---	---	---	------

The Factory, #424

-1	2	7	RESO
----	---	---	------

Campoleone, #425

1	6	5	ACH
---	---	---	-----

Campoleone Counterattack, #426

1	6	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Carroceto, #427

WINA	ACHA	ACHD	CRITERION
-1	4	6	RESO

Moletta River Defense, #428

0	5	5	ACH
---	---	---	-----

Aprilia II, #429

1	7	4	RESO
---	---	---	------

Factory Counterattack, #430

-1	3	8	RESO
----	---	---	------

Bowling Alley, #431

-1	4	6	RESO
----	---	---	------

Moletta River II, #432

1	7	5	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Fioccia, #433

WINA	ACHA	ACHD	CRITERION
-1	3	8	RESO

Santa Maria Infante, #434

1	7	4	RESO
---	---	---	------

San Martino, #435*

1	6	5	ACH
---	---	---	-----

Castellonorato, #436

1	8	3	RESO
---	---	---	------

Spigno, #437

1	6	4	RESO
---	---	---	------

Formia, #438

1	6	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Monte Grande (Rome), #439

WINA	ACHA	ACHD	CRITERION
1	7	4	RESO

Itri-Fondi, #440

1	8	3	RESO
---	---	---	------

Terracina, #441

1	6	3	RESO
---	---	---	------

Moletta Offensive, #442

0	5	5	ACH
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Anzio-Albano Road, #443

0	5	5	ACH
---	---	---	-----

Anzio Breakout, #444

1	7	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Cisterna, #445

WINA	ACHA	ACHD	CRITERION
1	7	3	RESO

Sezze, #446

1	6	4	RESO
---	---	---	------

Velletri, #447

-1	4	6	RESO
----	---	---	------

Campoleone Station, #448*

0	5	5	ACH
---	---	---	-----

Villa Crocetta, #449

-1	3	8	RESO
----	---	---	------

Ardea, #450

1	6	4	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Fosso di Campoleone, #451

WINA	ACHA	ACHD	CRITERION
-1	4	6	RESO

Lanuvio, #452

-1	3	6	RESO
----	---	---	------

Lariano, #453

1	7	3	RESO
---	---	---	------

Via Anziate, #454*

0	5	5	ACH
---	---	---	-----

Valmontone, #455

1	8	3	RESO
---	---	---	------

Tarto-Tiber, #456

1	5	4	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Il Gioglio Pass, #457

WINA	ACHA	ACHD	CRITERION
1	6	3	RESO

St. Lo, #458

1	7	5	RESO
---	---	---	------

Operation "Goodwood," #459

-1	5	8	RESO
----	---	---	------

Operation "Cobra," #460

1	7	3	RESO
---	---	---	------

Mortain, #461

-1	3	7	RESO
----	---	---	------

Chartres, #462

0	5	5	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Melun, #463

WINA	ACHA	ACHD	CRITERION
1	6	4	RESO

Seine River, #464 *

1	8	3	RESO
---	---	---	------

Moselle-Metz, #465 *

0	5	5	ACH
---	---	---	-----

Metz, #466

-1	3	7	RESO
----	---	---	------

Arracourt, #467

-1	3	6	RESO
----	---	---	------

Westwall, #468

1	5	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Schmidt, #469

WINA	ACHA	ACHD	CRITERION
-1	3	8	RESO

Seille-Nied, #470*

1	7	5	RESO
---	---	---	------

Foret de Chateau-Salins, #471*

1	6	5	ACH
---	---	---	-----

Morhange, #472

1	6	4	RESO
---	---	---	------

Morhange-Faulquemont, #473

1	8	6	RESO
---	---	---	------

Bourgaltroff, #474

1	7	6	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Sarre-St. Avoird, #475

WINA	ACHA	ACHD	CRITERION
1	7	5	RESO

Baerendorf I, #476

1	6	4	RESO
---	---	---	------

Baerendorf II, #477

1	6	5	ACH
---	---	---	-----

Burbach-Durstel, #478

1	6	5	ACH
---	---	---	-----

Durstel-Faerbersviller, #479*

0	5	5	ACH
---	---	---	-----

Sarre-Union, #480

1	7	5	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Sarre-Singling, #481

WINA	ACHA	ACHD	CRITERION
1	8	5	RESO

Singling-Bining, #482*

0	5	5	ACH
---	---	---	-----

Sauer River, #483

1	5	4	RESO
---	---	---	------

St. Vith, #484

0	5	5	ACH
---	---	---	-----

Bastogne, #485*

-1	5	7	ACH
----	---	---	-----

Sedan-Meuse River, #486

1	8	5	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Jitra, #487

WINA	ACHA	ACHD	CRITERION
1	8	4	RESO

Rovno, #488

1	8	3	RESO
---	---	---	------

The Defense of Moscow, #489 *

-1	5	6	ACH
----	---	---	-----

Soviet Counteroffensive at Moscow, #490

1	7	5	RESO
---	---	---	------

The Pogoreloye Gorodische Offensive, #491 *

1	6	5	ACH
---	---	---	-----

Leningrad (Operation "Spark"), #492

1	7	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

The Oboyan-Kursk Axis, Phase I, #493*

WINA	ACHA	ACHD	CRITERION
1	6	5	ACH

Operation "Citadel," Southern Sector, #494

1	6	4	RESO
---	---	---	------

The Oboyan-Kursk Axis, Phase II, #495

1	6	5	ACH
---	---	---	-----

The Oboyan-Kursk Axis, Phase III, #496

-1	4	7	RESO
----	---	---	------

Prokhorovka, #497*

1	5	4	ACH
---	---	---	-----

Kursk Counteroffensive (Southern Sector), #498*

1	8	5	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Belgorod, #499

WINA	ACHA	ACHD	CRITERION
1	7	4	RESO

Melitopol, #500

1	8	6	RESO
---	---	---	------

Korsun-Shevchenkivskiy, #501

1	7	5	RESO
---	---	---	------

Nikopol Bridgehead, #502

1	6	4	RESO
---	---	---	------

Sevastopol, #503

1	9	3	RESO
---	---	---	------

The Berezina River, Byelorussian Offensive, #504

1	7	4	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

The Lvov-Sandomierz Offensive, #505

WINA	ACHA	ACHD	CRITERION
1	8	3	RESO

Brody, Phase I, #506 *

1	7	6	ACH
---	---	---	-----

Brody, Phase II, #507.*

1	7	6	ACH
---	---	---	-----

Assault Crossing of the Vistula River, Phase I, #508*

1	6	5	RESO
---	---	---	------

Vistula River Operation, Pulawy, Phase II, #509*

-1	5	6	ACH
----	---	---	-----

Yassy-Kishinev, #510*

1	9	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Vistula-Oder, #511

WINA	ACHA	ACHD	CRITERION
1	9	4	RESO

East Prussia, #512*

1	7	3	RESO
---	---	---	------

Ciechanow, Phase I, #513

0	6	6	ACH
---	---	---	-----

Ciechanow, Phase II, #514

1	6	5	ACH
---	---	---	-----

Seelow Heights, #515

1	6	4	RESO
---	---	---	------

Mutankiang, #516

1	9	2	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Tarawa-Betio, #517

WINA	ACHA	ACHD	CRITERION
1	7	4	RESO

Iwo Jima, Into the Main Defenses, #518

1	7	5	RESO
---	---	---	------

Iwo Jima, Suribachi, #519

1	7	4	RESO
---	---	---	------

Iwo Jima, Final Phase, #520

1	8	4	RESO
---	---	---	------

Advance from the Beach, #521*

1	8	4	RESO
---	---	---	------

Advance through the Outposts, #522*

1	7	6	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Tomb Hill-Ouki, #523*

WINA	ACHA	ACHD	CRITERION
1	7	6	ACH

Skyline Ridge-Rocky Crags, #524*

1	8	5	RESO
---	---	---	------

Kochi Ridge-Onaga I, #525

-1	3	7	RESO
----	---	---	------

Kochi Ridge-Onaga II, #526*

-1	4	8	RESO
----	---	---	------

Kochi Ridge-Onaga III, #527*

-1	3	7	RESO
----	---	---	------

Japanese Counterattack, 4-5 May, #528*

-1	3	8	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Kochi Ridge IV, #529*

WINA	ACHA	ACHD	CRITERION
1	8	5	RESO

Shuri Envelopment, Phase I, #530*

1	7	4	RESO
---	---	---	------

Japanese Counterattack, 24/25 May, #531*

-1	6	7	ACH
----	---	---	-----

Shuri Envelopment, Phase II, #532*

-1	6	7	ACH
----	---	---	-----

Shuri Envelopment, Phase III, #533*

1	6	5	ACH
---	---	---	-----

Hill 95-I, #534*

0	7	7	ACH
---	---	---	-----

BASIS FOR ASSIGNING VICTORY

Hill 95-II, #535*

WINA	ACHA	ACHD	CRITERION
1	8	5	RESO

Yaeju-Dake, #536*

1	8	5	RESO
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Hills 153 and 115, #537*

1	8	5	RESO
---	---	---	------

Advance from the Beachhead, #538

1	6	4	RESO
---	---	---	------

Advance to the Shuri Line Outposts, #539 *

1	6	5	ACH
---	---	---	-----

Kakazu and Tombstone Ridges, #540*

-1	4	7	RESO
----	---	---	------

BASIS FOR ASSIGNING VICTORY

Nishibaru Ridge-Tanabaru Escarpment, #541

WINA	ACHA	ACHD	CRITERION
1	6	4	RESO

Maeda Escarpment, #542

1	5	4	ACH
---	---	---	-----

Attack on the Shuri Line's Eastern Flank I, #543*

0	5	5	ACH
---	---	---	-----

Attack on the Shuri Line's Eastern Flank II, #544*

0	5	5	ACH
---	---	---	-----

Attack on the Shuri Line's Eastern Flank III, #545*

1	7	5	RESO
---	---	---	------

Advance to the Yuza-Dake/Yaeju-Dake Escarpment, #546*

1	5	3	RESO
---	---	---	------

BASIS FOR ASSIGNING VICTORY

Initial Attack on the Yuza-Dake/Yaeju-Dake Escarpment, #547 *

WINA	ACHA	ACHD	CRITERION
0	5	5	ACH

Capture of the Yuza-Dake/Yaeju-Dake Escarpment, #548

1	7	2	RESO
---	---	---	------

Jenin, #549

1	7	4	RESO
---	---	---	------

Jerusalem, #550

1	8	3	RESO
---	---	---	------

Kabatiya, #551

1	6	4	RESO
---	---	---	------

Tilfit-Zababida, #552

1	6	4	RESO
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BASIS FOR ASSIGNING VICTORY

Nablu, #553

WINA	ACHA	ACHD	CRITERION
1	7	4	RESO

Rafah, #554

1	8	4	RESO
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Bir Lahfan, #555

1	8	4	RESO
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Abu Ageila-Um Katef, #556 *

1	9	3	RESO
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El Arish, #557

1	9	2	RESO
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Jebel Libni, #558*

0	7	7	ACH
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BASIS FOR ASSIGNING VICTORY

Gaza Strip, #559

WINA	ACHA	ACHD	CRITERION
1	8	4	RESO

Bir Hassna-Bir Thamada, #560*

1	7	3	RESO
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Mitla Pass, #561

-1	3	8	RESO
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Bir Hamma-Bir Gifgafa, #562 *

1	7	4	RESO
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Nakhl, #563

1	9	4	RESO
---	---	---	------

Bir Gifgafa, #564

-1	3	8	RESO
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BASIS FOR ASSIGNING VICTORY

Tel Fahar-Banias, #565

WINA	ACHA	ACHD	CRITERION
1	2	2	RESO

Rawiyeh, #566

1	8	2	RESO
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Zaoura-Kala, #567

1	7	2	RESO
---	---	---	------

Kerama, #568*

0	6	6	ACH
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Suez Canal Assault-North, #569

1	8	4	RESO
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Suez Canal Assault-South, #570

1	8	4	RESO
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BASIS FOR ASSIGNING VICTORY

Second Army Buildup, #571

WINA	ACHA	ACHD	CRITERION
1	8	6	RESO

Third Army Buildup, #572

1	8	6	RESO
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Kantara-Firdan, #573

-1	4	7	RESO
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Egyptian Offensive-North, #574 *

-1	3	8	RESO
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Egyptian Offensive-South, #575*

-1	5	8	RESO
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Deversoir (Chinese Farm I), #576

1	7	4	RESO
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BASIS FOR ASSIGNING VICTORY

Deversoir (Chinese Farm II), #577

WINA	ACHA	ACHD	CRITERION
1	7	3	RESO

Deversoir West, #578

1	8	5	RESO
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Ismailia, #579

-1	4	8	RESO
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Jebel Geneifa, #580*

1	7	4	RESO
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Shallufa I, #581*

1	6	4	RESO
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Adabiya, #582*

1	8	2	RESO
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BASIS FOR ASSIGNING VICTORY

Shallufa II, #583*

WINA	ACHA	ACHD	CRITERION
1	7	2	RESO

Suez, #584 *

-1	3	6	RESO
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Kuneitra, #585

0	6	6	ACH
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Ahmadiyah, #586

-1	3	7	RESO
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Rafid, #587

1	6	5	RESO
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Yehudiah-El Al, #588

-1	3	7	RESO
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BASIS FOR ASSIGNING VICTORY

Nafekh, #589

WINA	ACHA	ACHD	CRITERION
-1	3	7	RESO

Tel Faris, #590

1	7	3	RESO
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Hushniyah, #591

1	7	3	RESO
---	---	---	------

Mount Hermonit, #592

-1	4	7	RESO
----	---	---	------

Mount Hermon I, #593

-1	3	8	RESO
----	---	---	------

Tel Shams, #594*

1	7	5	RESO
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BASIS FOR ASSIGNING VICTORY

Tel Shaar, #595

WINA	ACHA	ACHD	CRITERION
1	7	3	RESO

Tel el Hara, #596

-1	1	9	RESO
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Kfar Shams-Tel Antar, #597

1	8	2	RESO
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Naba, #598

-1	2	8	RESO
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Arab Counteroffensive, #599

-1	2	8	RESO
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Mount Hermon II, #600

-1	3	6	RESO
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BASIS FOR ASSIGNING VICTORY

Mount Hermon III, #601

WINA	ACHA	ACHD	CRITERION
1	7	3	RESO

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